

See Sheet 1-A For Index of Sheets  
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GRACE CHAPEL ROAD  
CONNECTOR TO US 321**

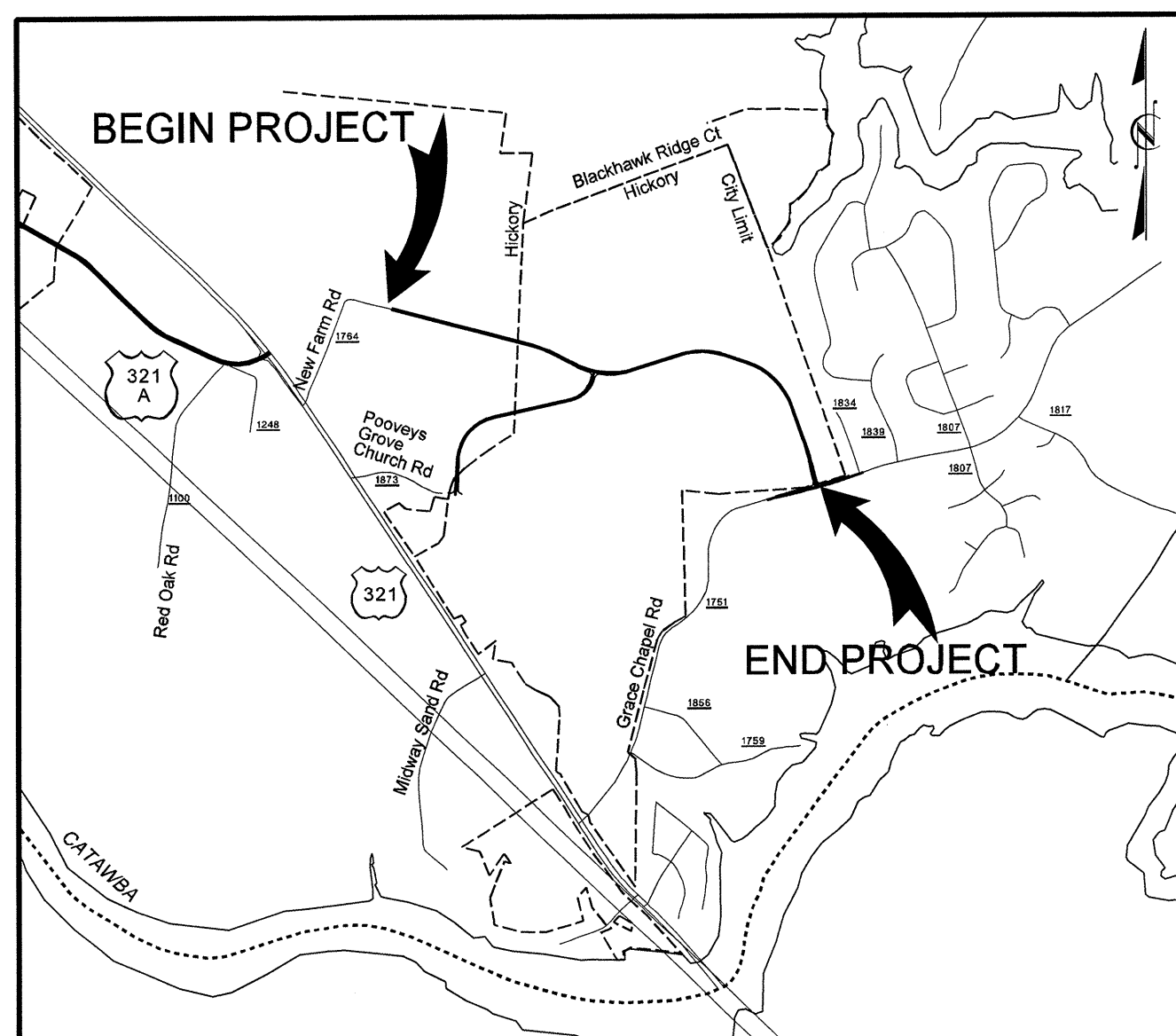
LOCATION: FROM NEW FARM ROAD (SR 1764)  
TO GRACE CHAPEL ROAD (SR 1751)

PLAN FOR PROPOSED  
ROADWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5204	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

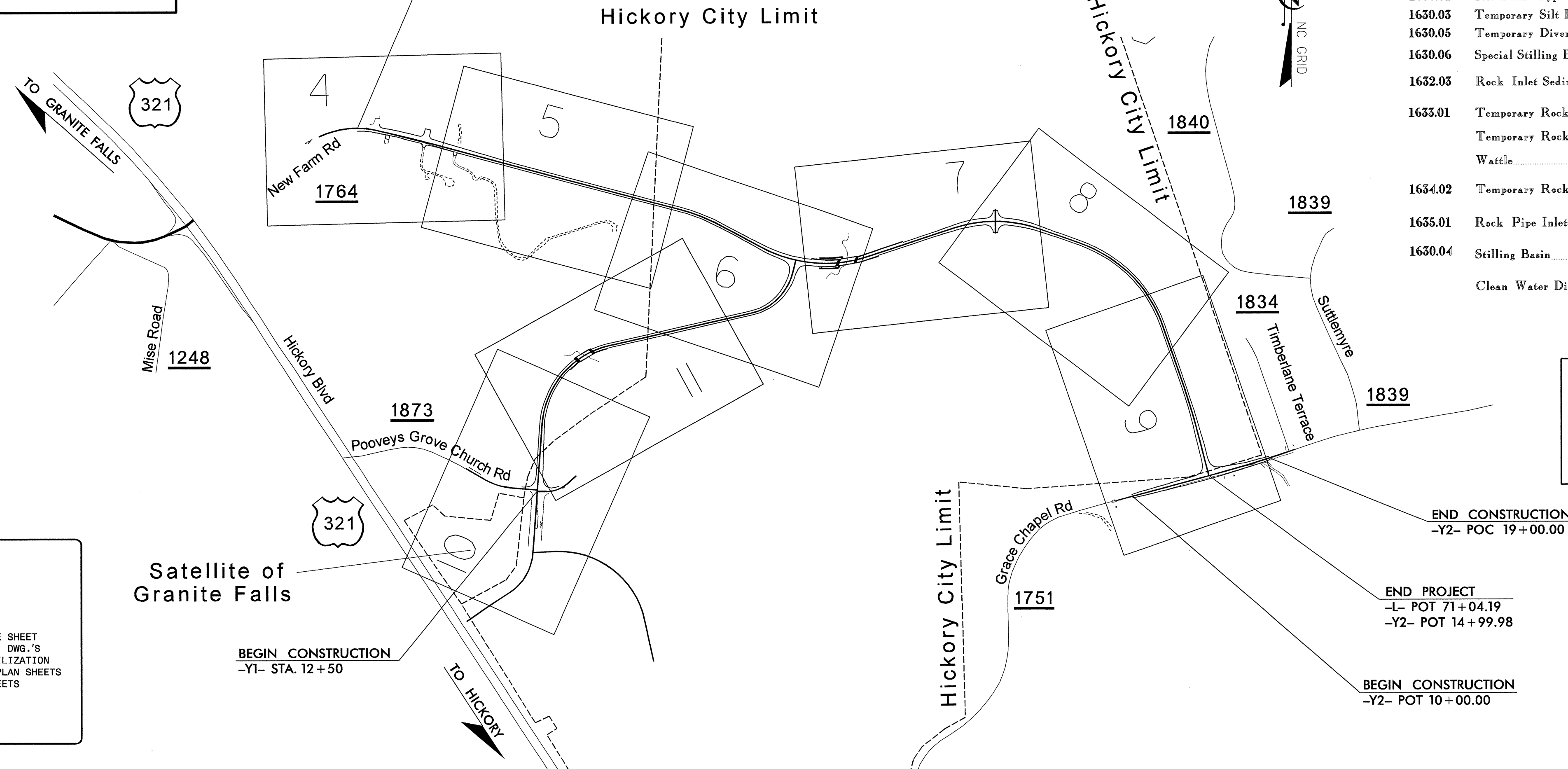
TIP PROJECT: U-5204

CONTRACT: C202565



VICINITY MAP

BEGIN PROJECT  
BEGIN CONSTRUCTION  
-L- STA. 6+00



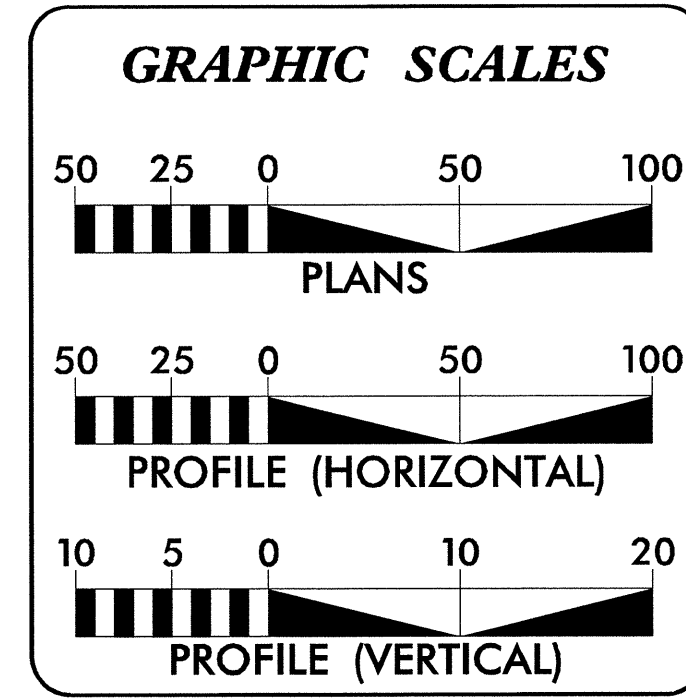
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	[Symbol]
1606.01	Special Sediment Control Fence	[Symbol]
1622.01	Temporary Berms and Slope Drains	[Symbol]
1630.01	Riser Basin	[Symbol]
1630.02	Silt Basin Type B	[Symbol]
1630.05	Temporary Silt Ditch	[Symbol]
1630.05	Temporary Diversion	[Symbol]
1630.06	Special Stilling Basin	[Symbol]
1632.03	Rock Inlet Sediment Trap Type C	[Symbol]
1633.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle	[Symbol]
1654.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1655.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1630.04	Stilling Basin	[Symbol]
	Clean Water Diversion Ditch	[Symbol]

THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE AND  
FINAL GRADE PHASE OF  
CONSTRUCTION.

**EROSION CONTROL INDEX OF SHEETS**

SHEET NO.	TITLE
EC-1	EROSION CONTROL TITLE SHEET
EC-2A THRU EC-2B	APPLICABLE NCDOT STD. DWG.'S
EC-2C	SUMMARY OF SOIL STABILIZATION
CG-4 THRU CG-11	CLEARING & GRUBBING PLAN SHEETS
FG-4 THRU FG-11	FINE GRADING PLAN SHEETS



Prepared in the Office of:  
**THE LOUIS BERGER GROUP, Inc.**  
1001 Wade Avenue, Suite 400  
Raleigh, North Carolina 27605

2006 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
September 18, 2009

**LETTING DATE:**  
March 16, 2010

**D. HATFIELD, PE**  
PROJECT ENGINEER

**RANA S. STANSSELL, PE**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

\_\_\_\_\_  
SIGNATURE: P.E.

**ROADWAY DESIGN ENGINEER**

\_\_\_\_\_  
SIGNATURE: P.E.

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

\_\_\_\_\_  
STATE HIGHWAY DESIGN ENGINEER P.E.

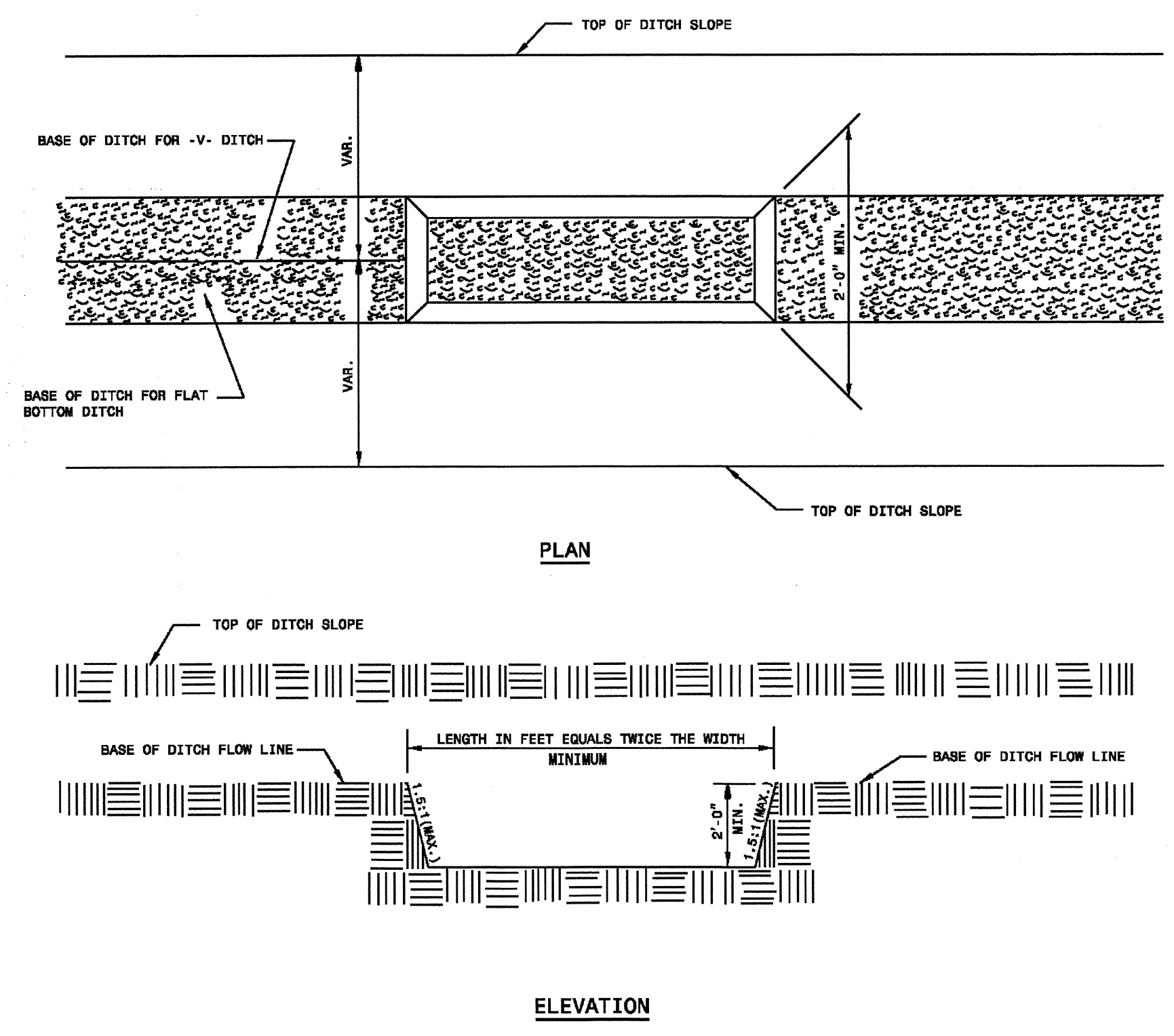
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

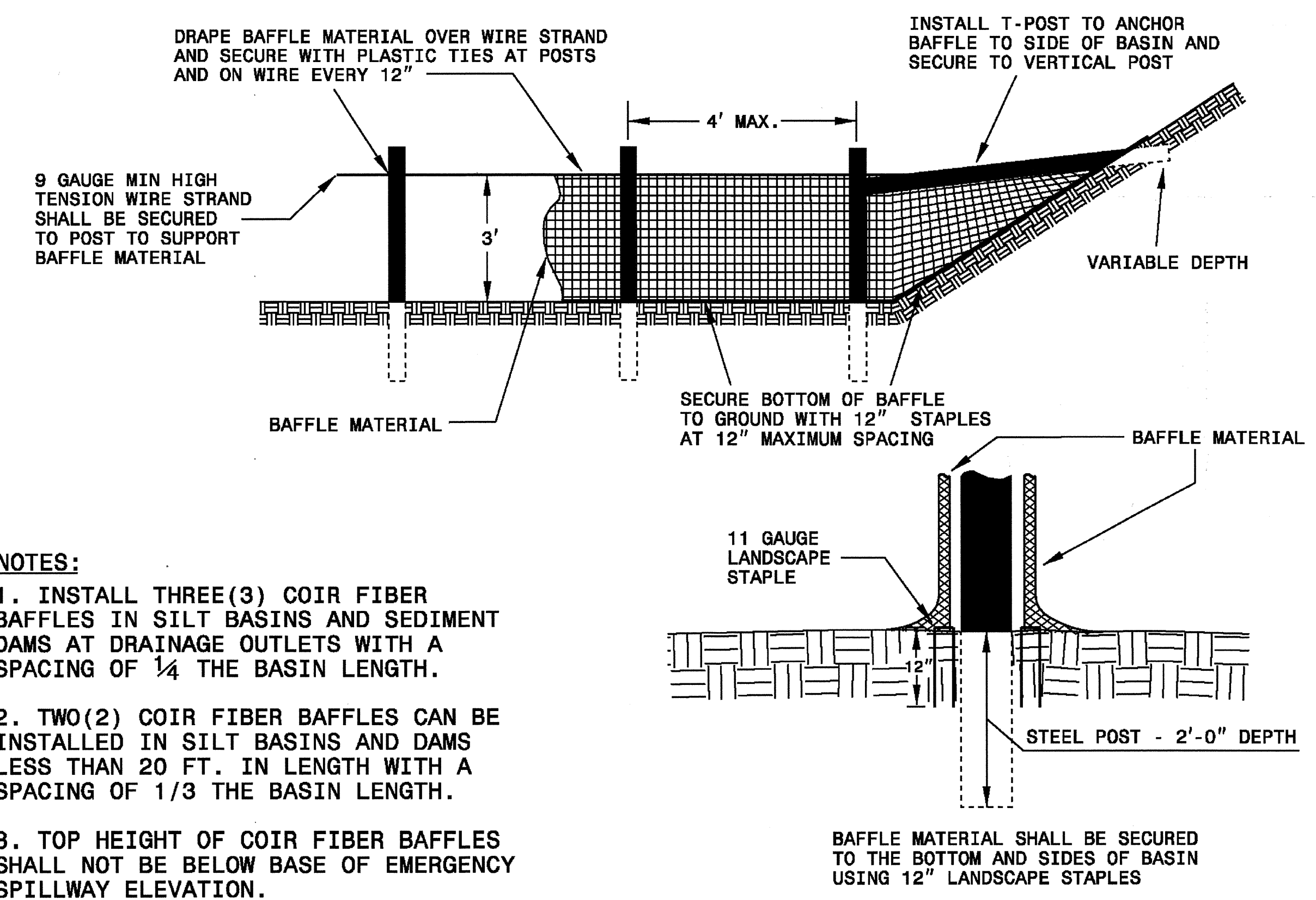
1604.01 Railroad Erosion Control Detail	1630.06 Special Stilling Basin
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B

Rana Stanssell, PE  
LEVEL III A: Designer of Erosion and  
Sediment Control Plans  
Certification Number: 635

### SILT BASIN 'B' DETAIL

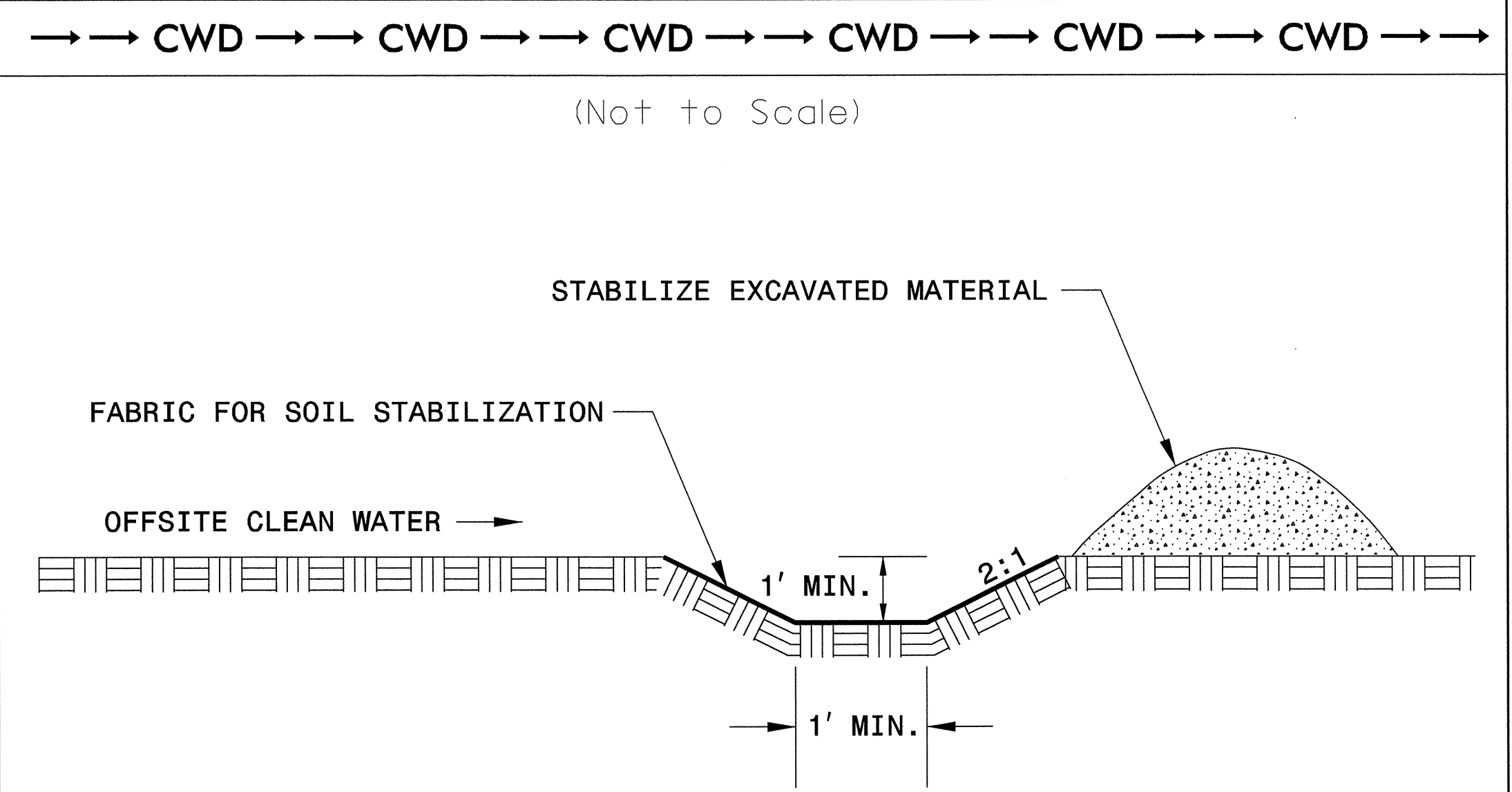


### COIR FIBER BAFFLE DETAIL



- NOTES:**
1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF 1/4 THE BASIN LENGTH.
  2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.
  3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

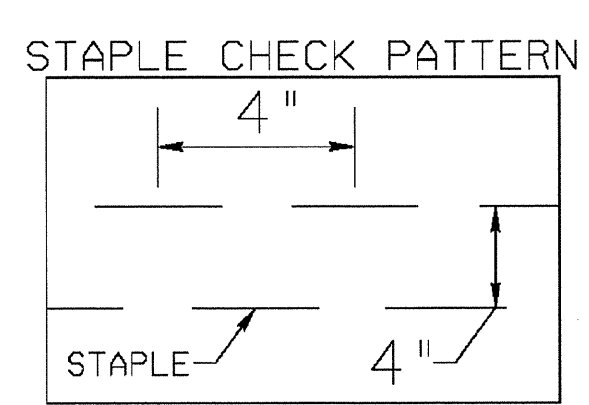
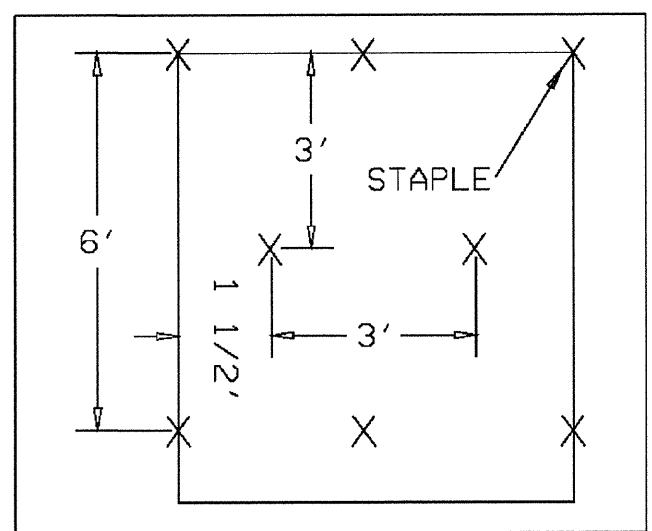
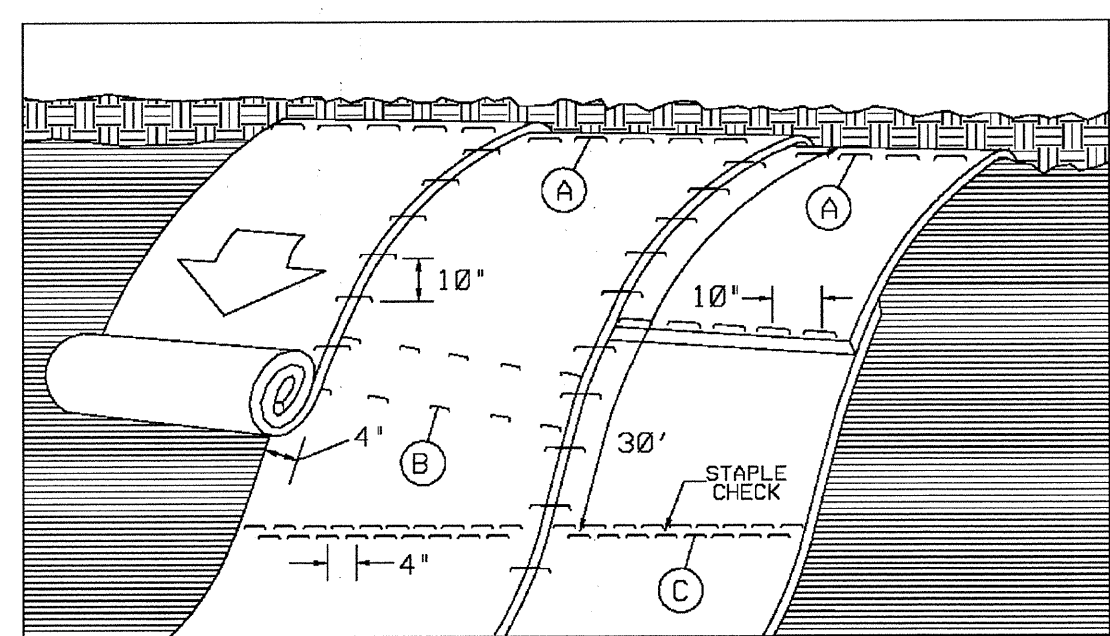
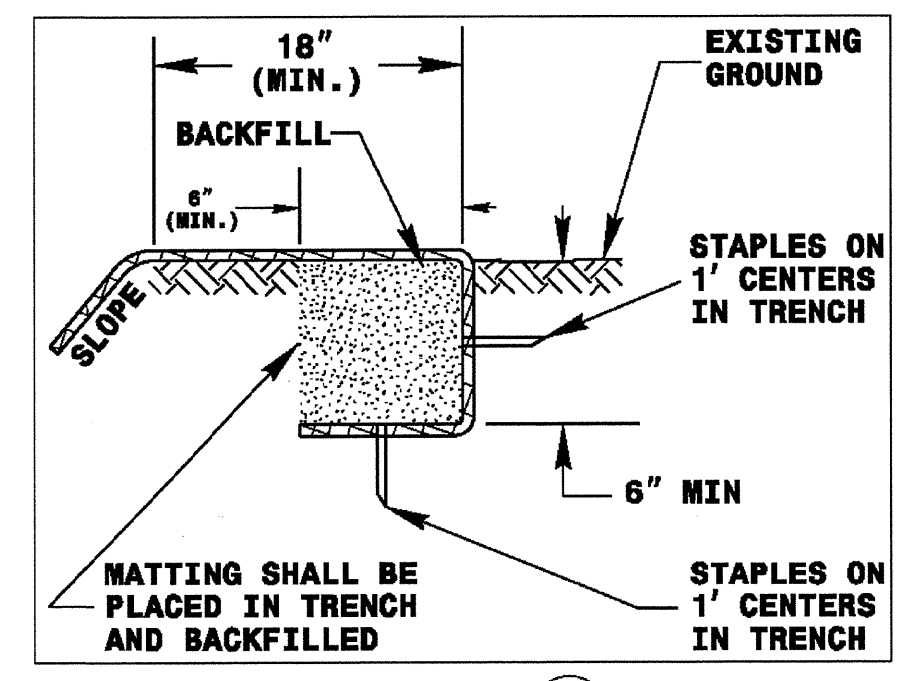
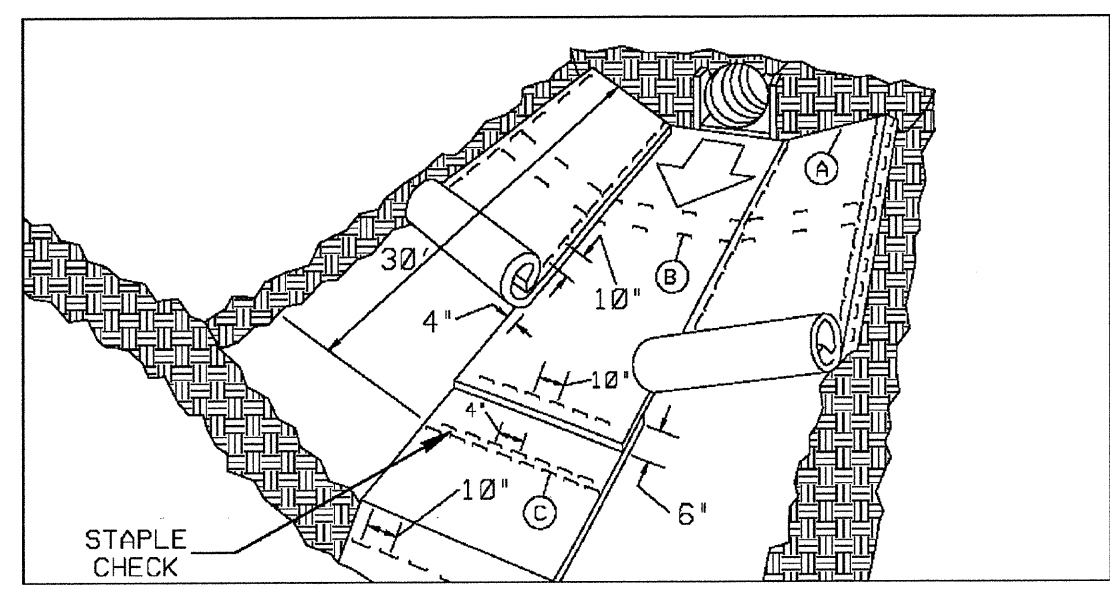
### CLEAN WATER DIVERSION



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REVISIONS

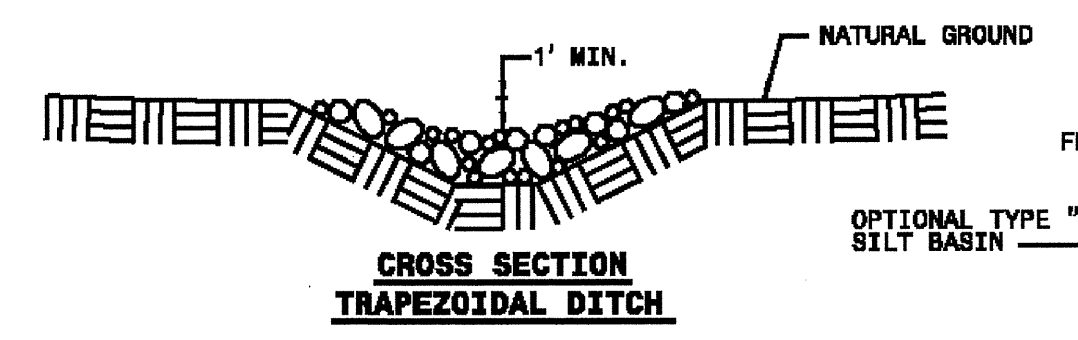
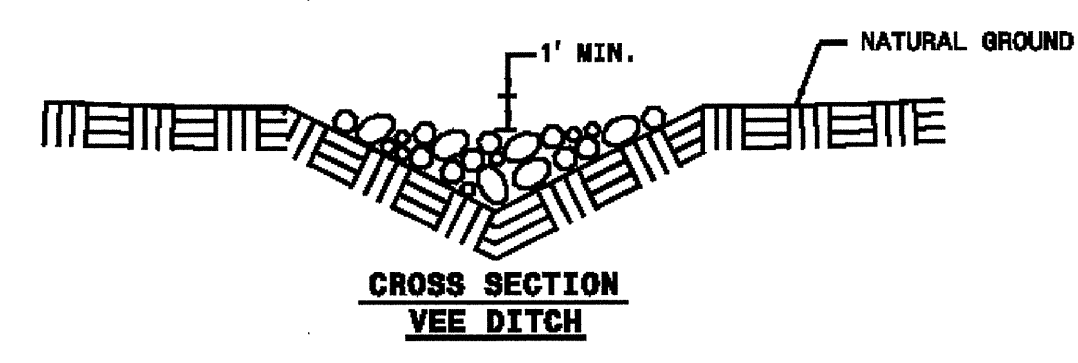
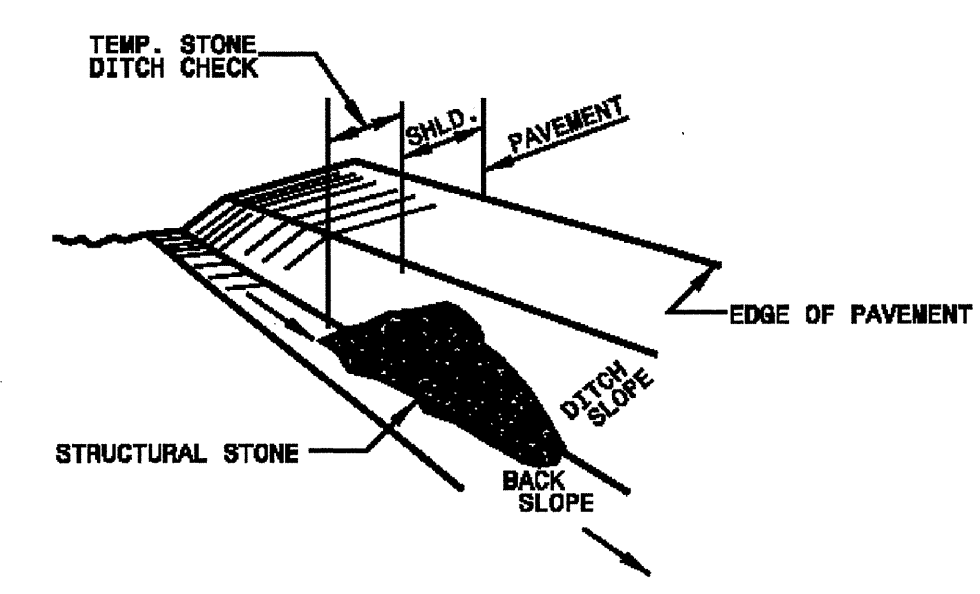
### MATTING INSTALLATION DETAIL



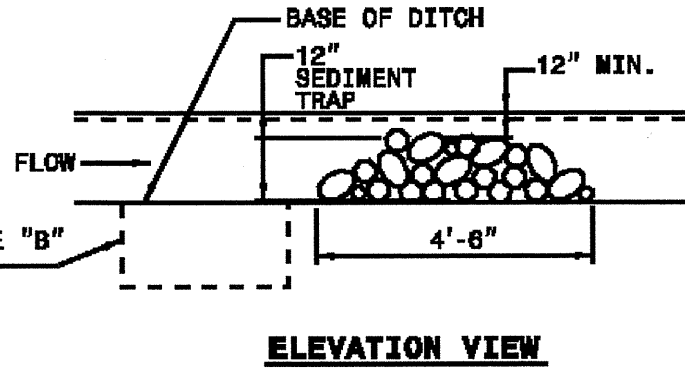
**NOTES:**  
 THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.  
 STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

### TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



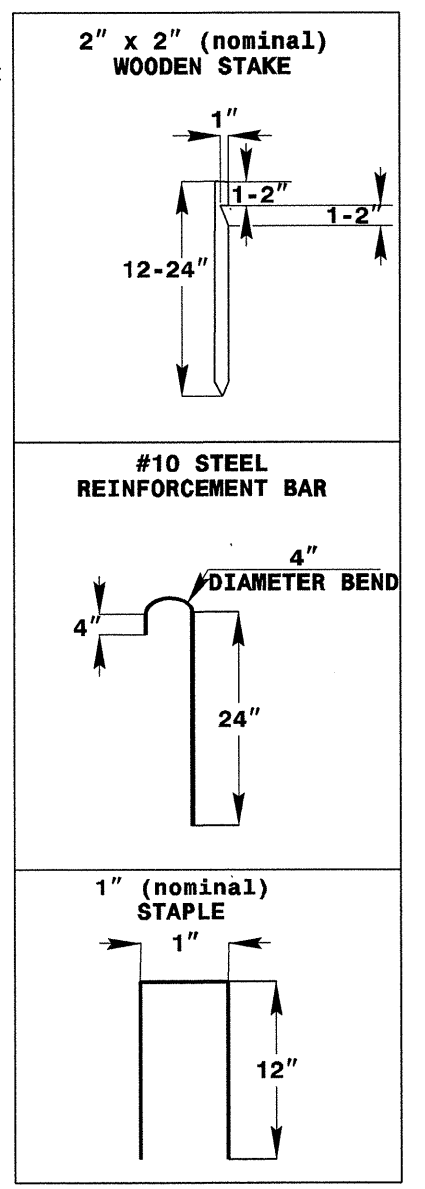
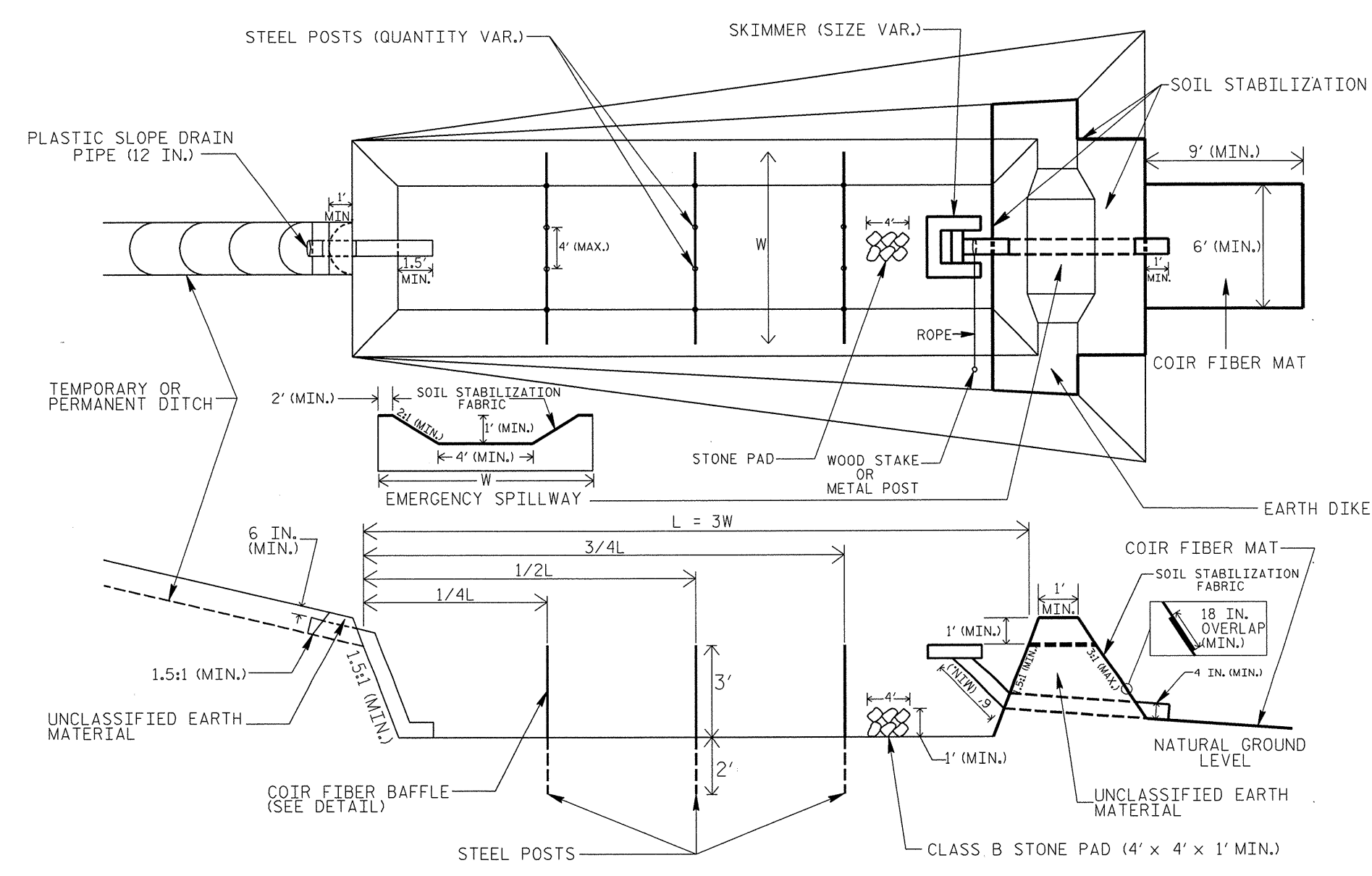
**NOTES:**  
 USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.  
 THE ENGINEER MAY DIRECT THE OPTION OF CLASS 'A' STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



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### SKIMMER BASIN WITH BAFFLES DETAIL



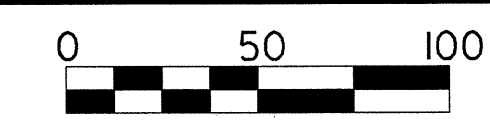
**NOTES:**  
 1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.  
 2. LIMIT EARTH DIKE HEIGHT TO 5 FT.  
 3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.  
 4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/O.S. WHERE Q IS FLOW RATE (CFS) INTO BASIN.  
 5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTER FABRIC AS DIRECTED.  
 6. SOIL STABILIZATION FABRIC FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

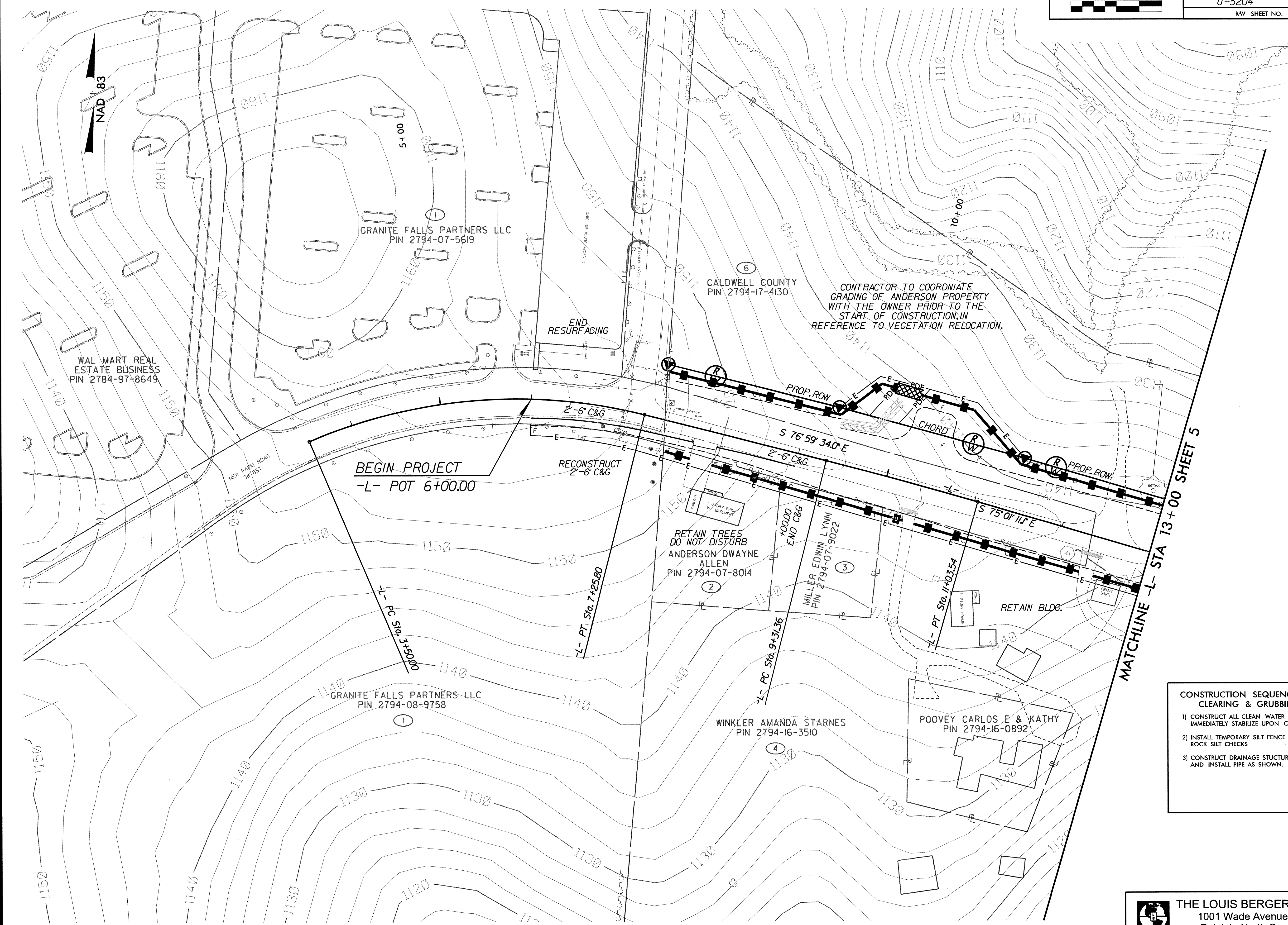








PROJECT REFERENCE NO.	SHEET NO.
U-5204	EC-4/CONST.4
RW SHEET NO.	

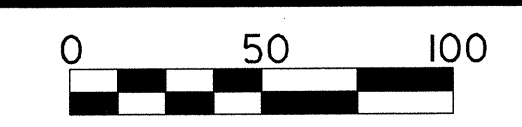


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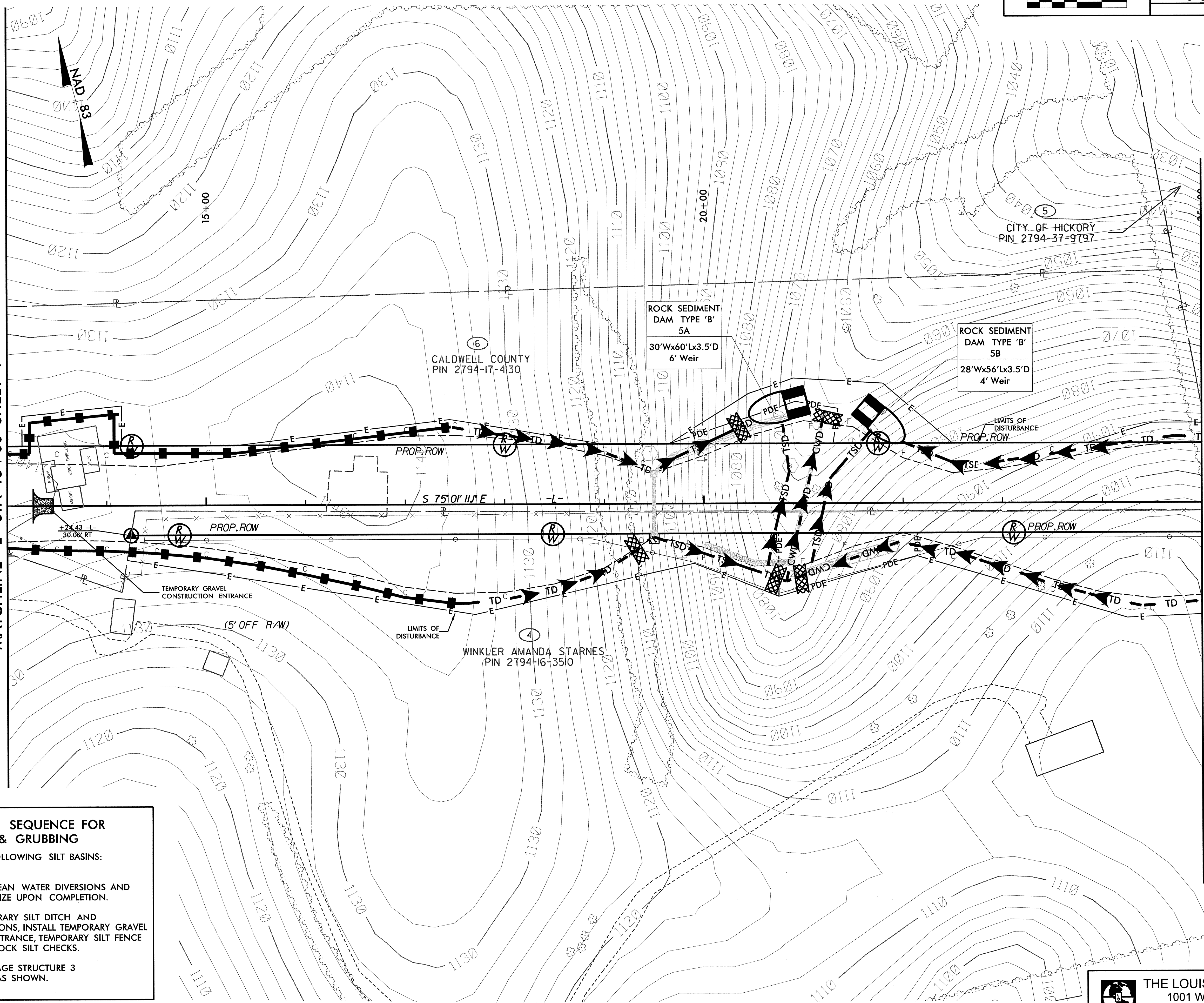
- CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**
- 1) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
  - 2) INSTALL TEMPORARY SILT FENCE AND TEMPORARY ROCK SILT CHECKS
  - 3) CONSTRUCT DRAINAGE STRUCTURE 40 & 41 AND INSTALL PIPE AS SHOWN.





MATCHLINE -L- STA 13+00 SHEET 4

MATCHLINE -L- STA 25+00 SHEET 6

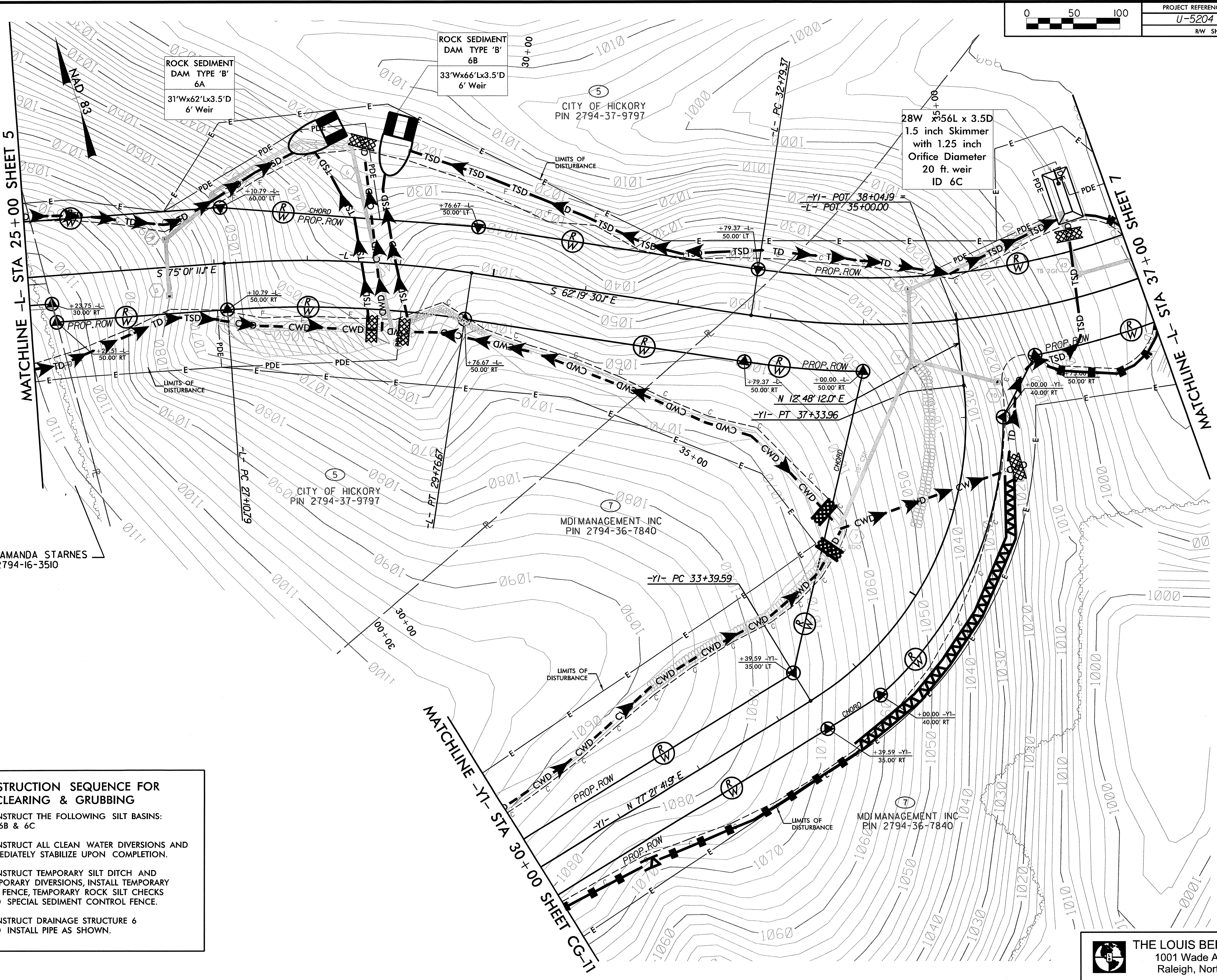
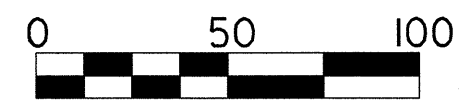


REVISIONS

SDATES  
SFIELDS  
S/TIMES

- CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS:  
5A & 5B
  - 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
  - 3) CONSTRUCT TEMPORARY SILT DITCH AND TEMPORARY DIVERSIONS, INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, TEMPORARY SILT FENCE AND TEMPORARY ROCK SILT CHECKS.
  - 4) CONSTRUCT DRAINAGE STRUCTURE 3 AND INSTALL PIPE AS SHOWN.





ROCK SEDIMENT  
DAM TYPE 'B'  
6B  
33'Wx66'Lx3.5'D  
6' Weir

28W x 56L x 3.5D  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
20 ft weir  
ID 6C

WINKLER AMANDA STARNES  
PIN 2794-16-3510

CITY OF HICKORY  
PIN 2794-37-9797

MDI MANAGEMENT INC  
PIN 2794-36-7840

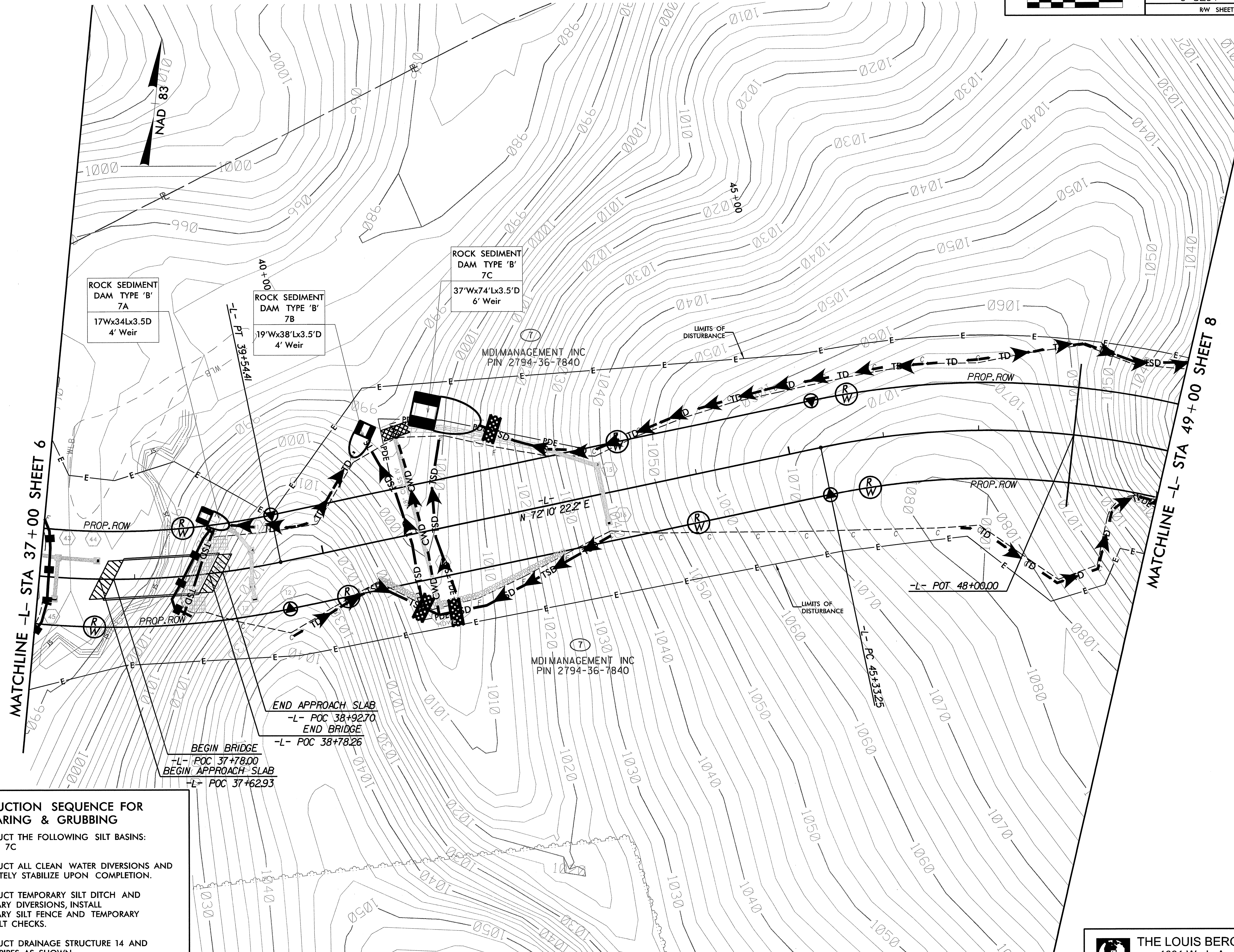
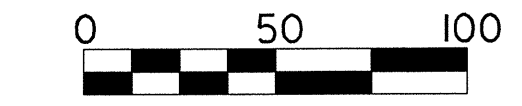
MDI MANAGEMENT INC  
PIN 2794-36-7840

- CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 6A, 6B & 6C
  - 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
  - 3) CONSTRUCT TEMPORARY SILT DITCH AND TEMPORARY DIVERSIONS, INSTALL TEMPORARY SILT FENCE, TEMPORARY ROCK SILT CHECKS AND SPECIAL SEDIMENT CONTROL FENCE.
  - 4) CONSTRUCT DRAINAGE STRUCTURE 6 AND INSTALL PIPE AS SHOWN.

REVISIONS

8 DATES  
8 FILEL'S  
8 TIMES





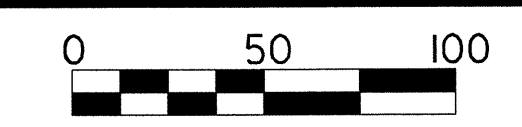
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\$TIME\$

- CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 7A, 7B & 7C
  - 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
  - 3) CONSTRUCT TEMPORARY SILT DITCH AND TEMPORARY DIVERSIONS, INSTALL TEMPORARY SILT FENCE AND TEMPORARY ROCK SILT CHECKS.
  - 4) CONSTRUCT DRAINAGE STRUCTURE 14 AND INSTALL PIPES AS SHOWN.

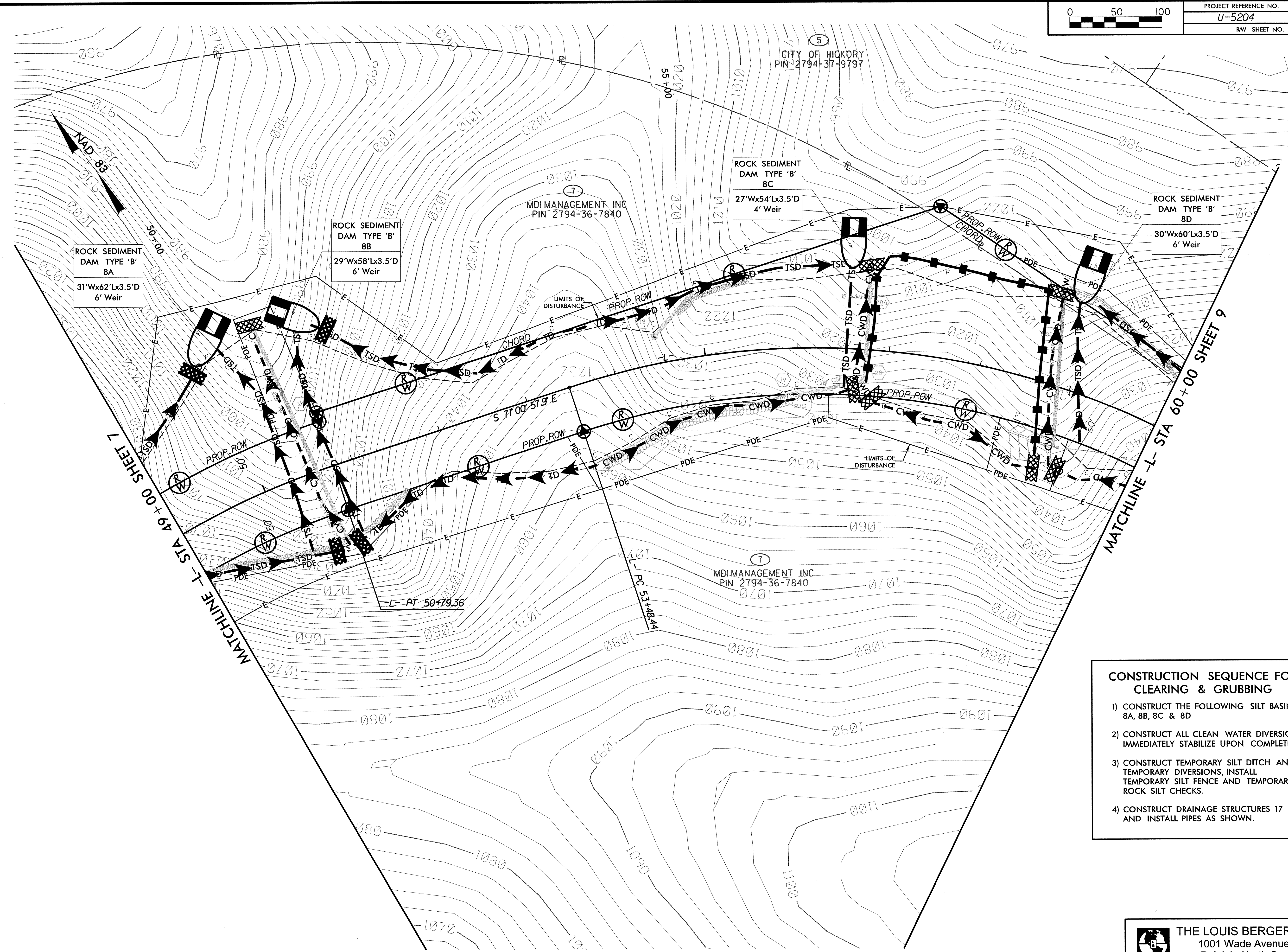
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-L- POC 37+78.00  
**BEGIN APPROACH SLAB**  
-L- POC 37+62.93

**END APPROACH SLAB**  
-L- POC 38+92.70  
**END BRIDGE**  
-L- POC 38+78.26





PROJECT REFERENCE NO.	SHEET NO.
U-5204	EC-8/CONST.8
RW SHEET NO.	



ROCK SEDIMENT  
DAM TYPE 'B'  
8A  
31'Wx62'Lx3.5'D  
6' Weir

ROCK SEDIMENT  
DAM TYPE 'B'  
8B  
29'Wx58'Lx3.5'D  
6' Weir

ROCK SEDIMENT  
DAM TYPE 'B'  
8C  
27'Wx54'Lx3.5'D  
4' Weir

ROCK SEDIMENT  
DAM TYPE 'B'  
8D  
30'Wx60'Lx3.5'D  
6' Weir

MDI MANAGEMENT INC  
PIN 2794-36-7840

CITY OF HICKORY  
PIN 2794-37-9797

MDI MANAGEMENT INC  
PIN 2794-36-7840

MATCHLINE L- STA 49+00 SHEET 7

MATCHLINE L- STA 60+00 SHEET 9

- CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS:  
8A, 8B, 8C & 8D
  - 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
  - 3) CONSTRUCT TEMPORARY SILT DITCH AND TEMPORARY DIVERSIONS, INSTALL TEMPORARY SILT FENCE AND TEMPORARY ROCK SILT CHECKS.
  - 4) CONSTRUCT DRAINAGE STRUCTURES 17 & 21 AND INSTALL PIPES AS SHOWN.

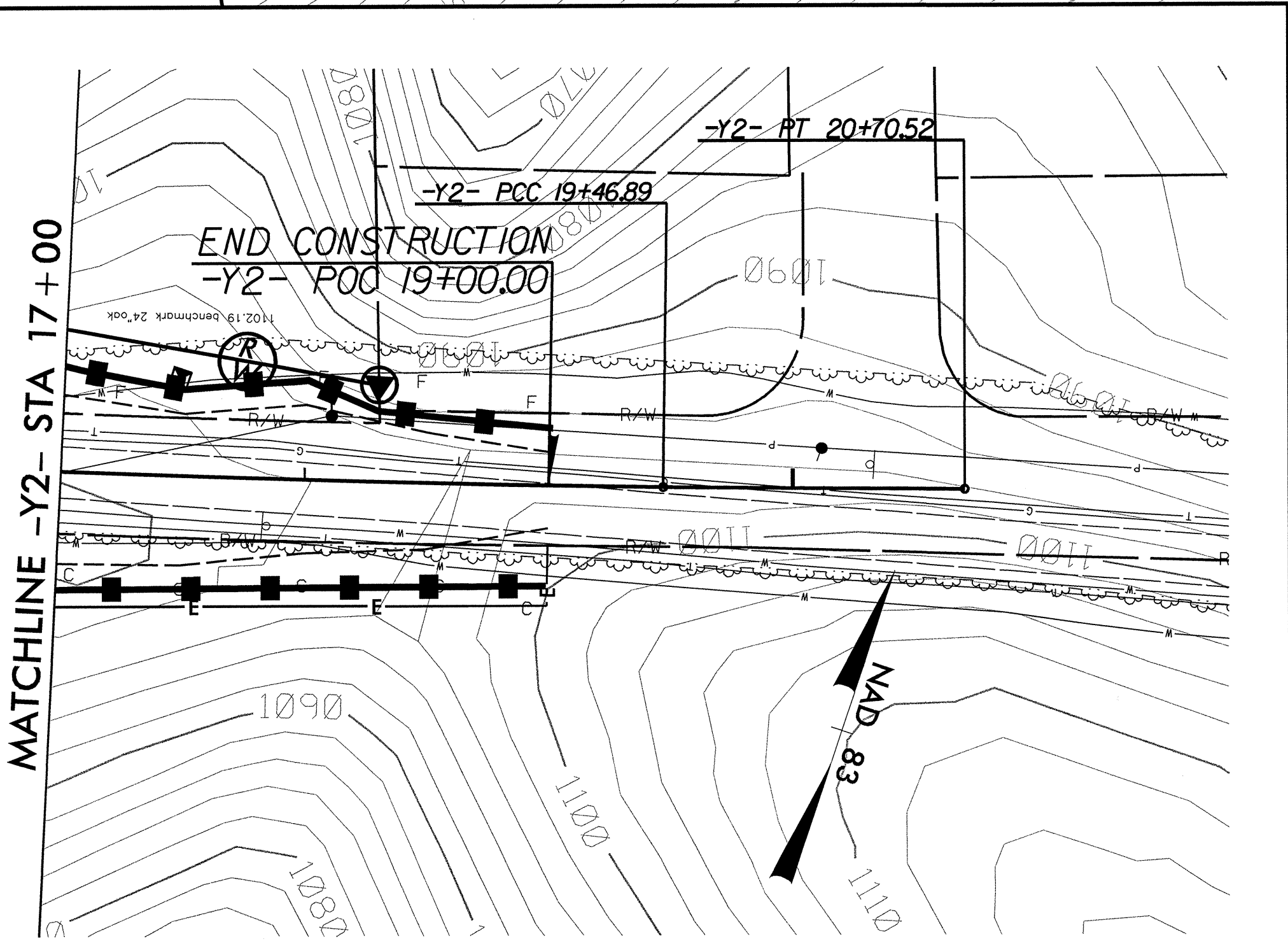
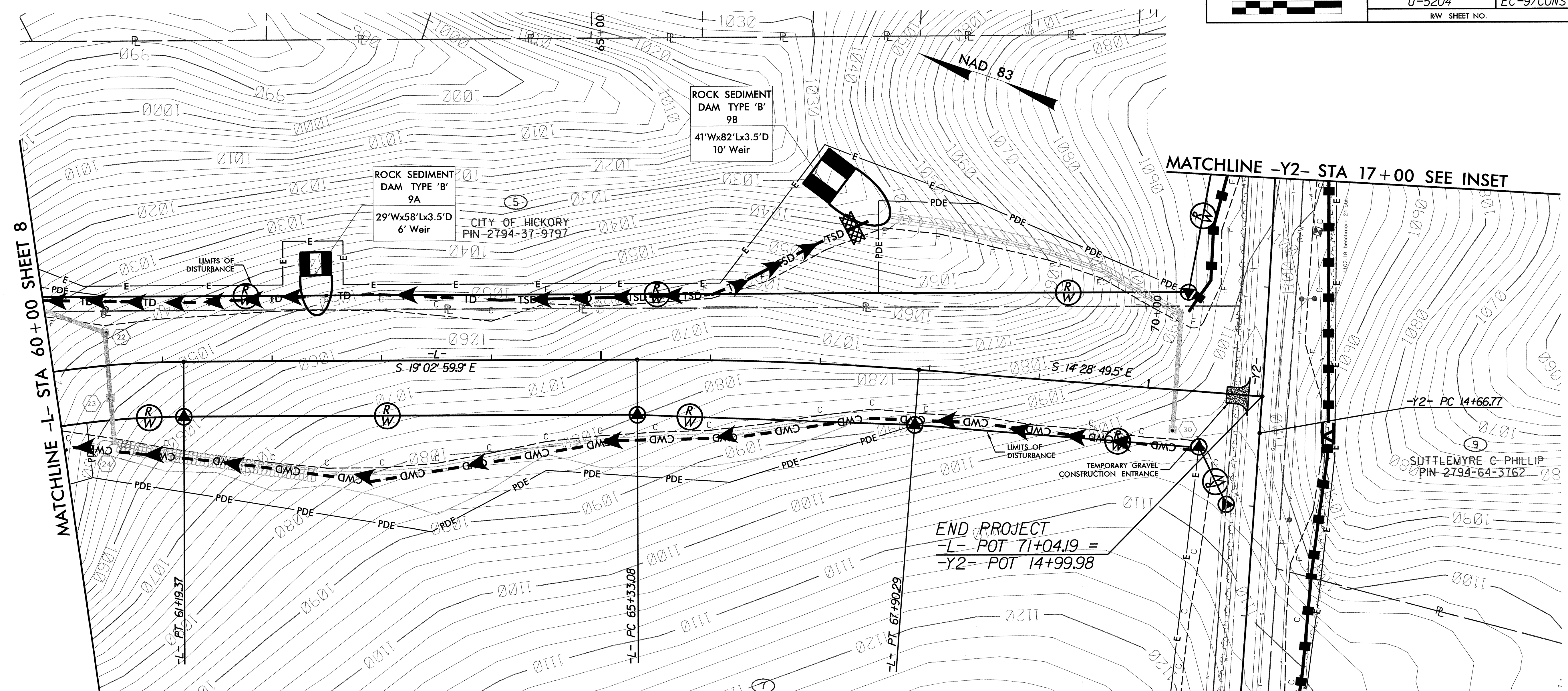
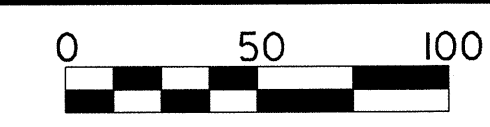
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\$TIME\$



THE LOUIS BERGER GROUP, Inc.  
1001 Wade Avenue, Suite 400  
Raleigh, North Carolina 27605





END PROJECT  
 -L- POT 71+04.19 =  
 -Y2- POT 14+99.98

**CONSTRUCTION SEQUENCE FOR  
 CLEARING & GRUBBING**

- 1) CONSTRUCT THE FOLLOWING SILT BASINS:  
 9A & 9B
- 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND  
 IMMEDIATELY STABILIZE UPON COMPLETION.
- 3) CONSTRUCT TEMPORARY SILT DITCH AND  
 TEMPORARY DIVERSIONS, INSTALL TEMPORARY GRAVEL  
 CONSTRUCTION ENTRANCE, TEMPORARY SILT FENCE  
 AND TEMPORARY ROCK SILT CHECKS.

BEGIN CONSTRUCTION  
 -Y2- POT 10+00.00

BERRY RICHARD D JR  
 PIN 2794-53-4860

-Y2- PC 8+95.22



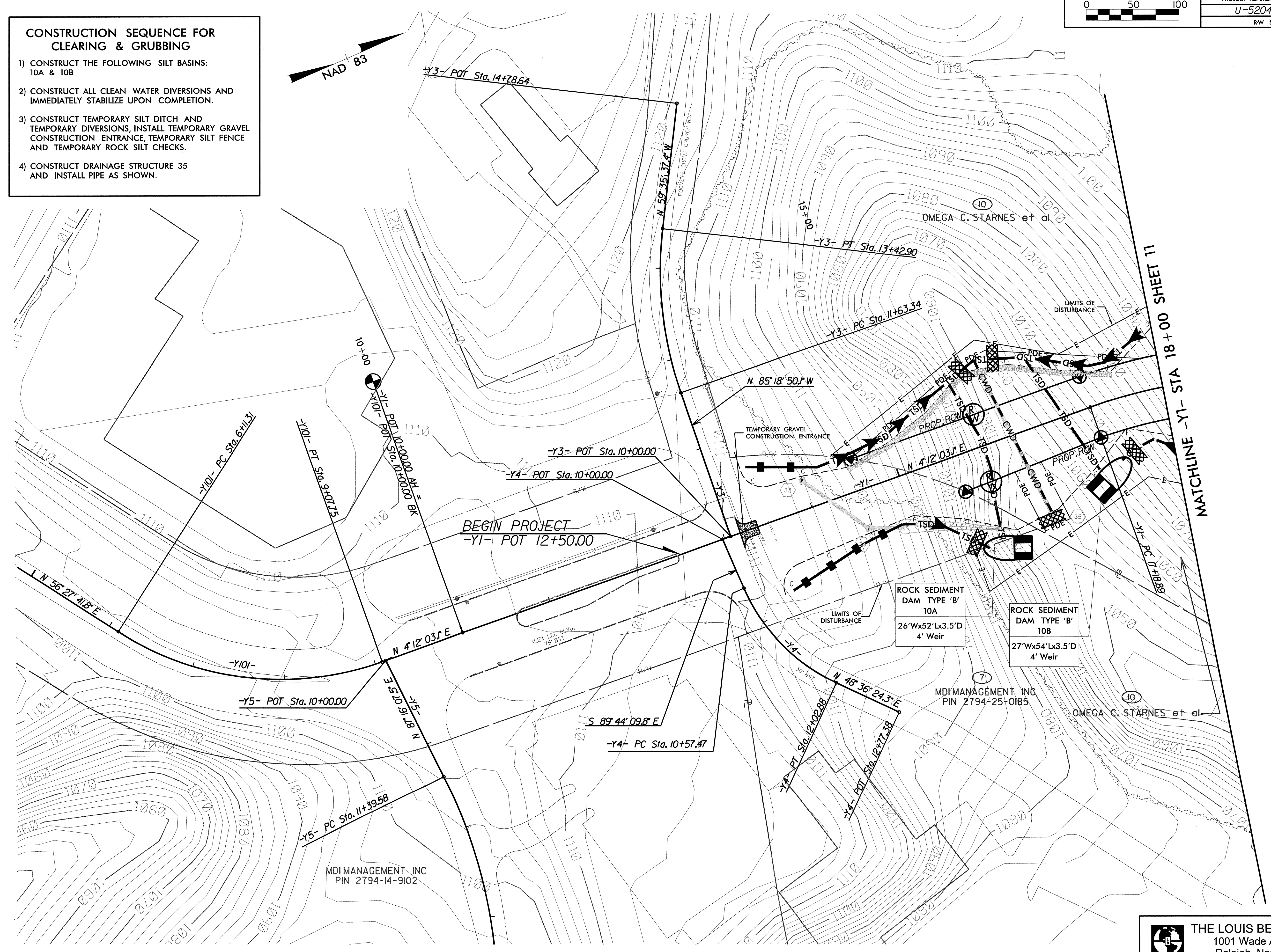
**THE LOUIS BERGER GROUP, Inc.**  
 1001 Wade Avenue, Suite 400  
 Raleigh, North Carolina 27605

REVISIONS

DATES  
 SHEETS  
 TIMES

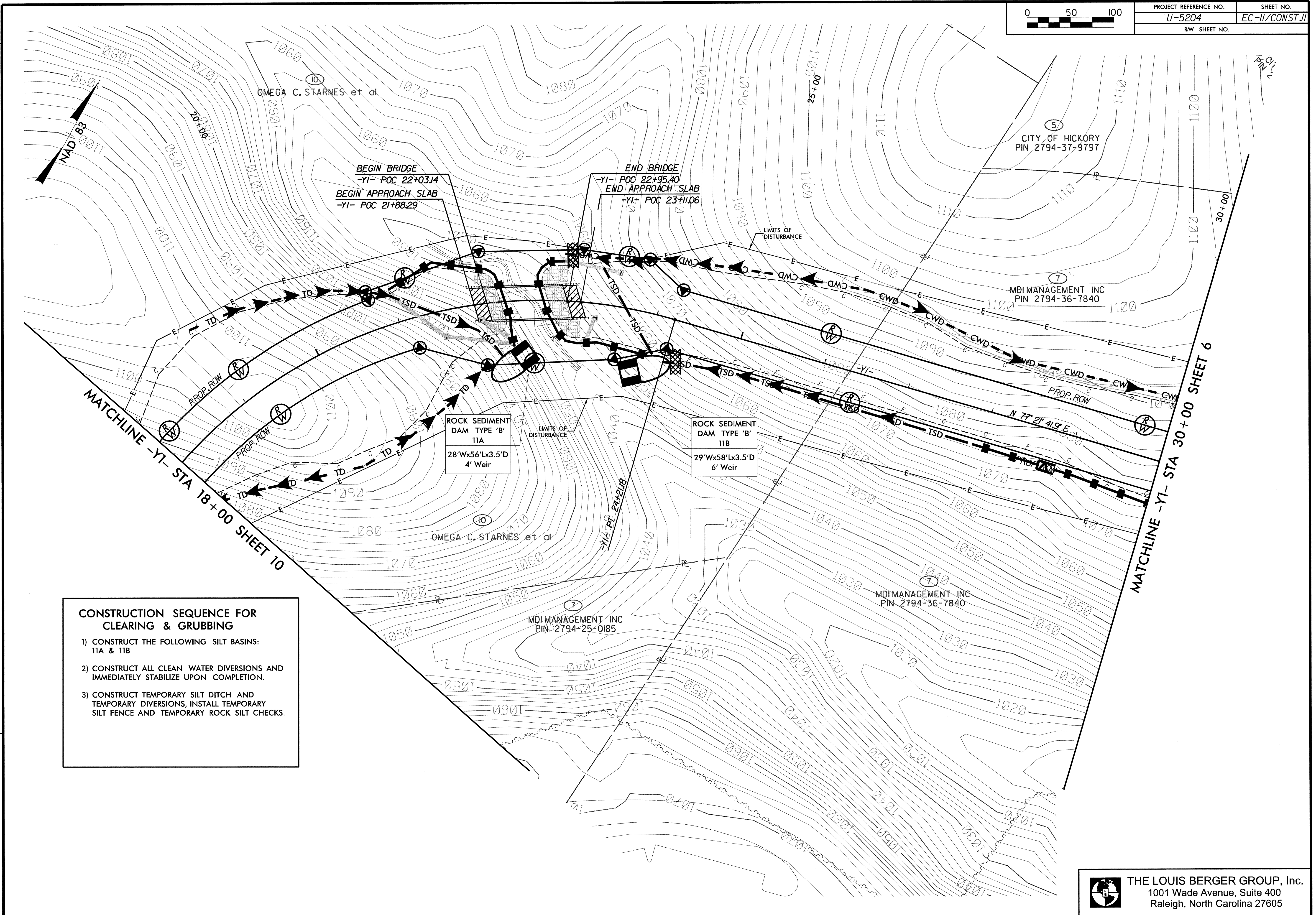
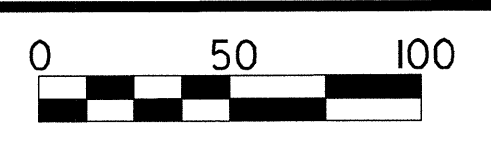


- CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 10A & 10B
  - 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
  - 3) CONSTRUCT TEMPORARY SILT DITCH AND TEMPORARY DIVERSIONS, INSTALL TEMPORARY CONSTRUCTION ENTRANCE, TEMPORARY SILT FENCE AND TEMPORARY ROCK SILT CHECKS.
  - 4) CONSTRUCT DRAINAGE STRUCTURE 35 AND INSTALL PIPE AS SHOWN.



REVISIONS  
 \$DATES \$FILEL\$ \$TIMES





**CONSTRUCTION SEQUENCE FOR CLEARING & GRUBBING**

- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 11A & 11B
- 2) CONSTRUCT ALL CLEAN WATER DIVERSIONS AND IMMEDIATELY STABILIZE UPON COMPLETION.
- 3) CONSTRUCT TEMPORARY SILT DITCH AND TEMPORARY DIVERSIONS, INSTALL TEMPORARY SILT FENCE AND TEMPORARY ROCK SILT CHECKS.

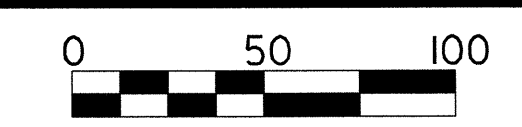
ROCK SEDIMENT DAM TYPE 'B' 11A  
 28'Wx56'Lx3.5'D  
 4' Weir

ROCK SEDIMENT DAM TYPE 'B' 11B  
 29'Wx58'Lx3.5'D  
 6' Weir

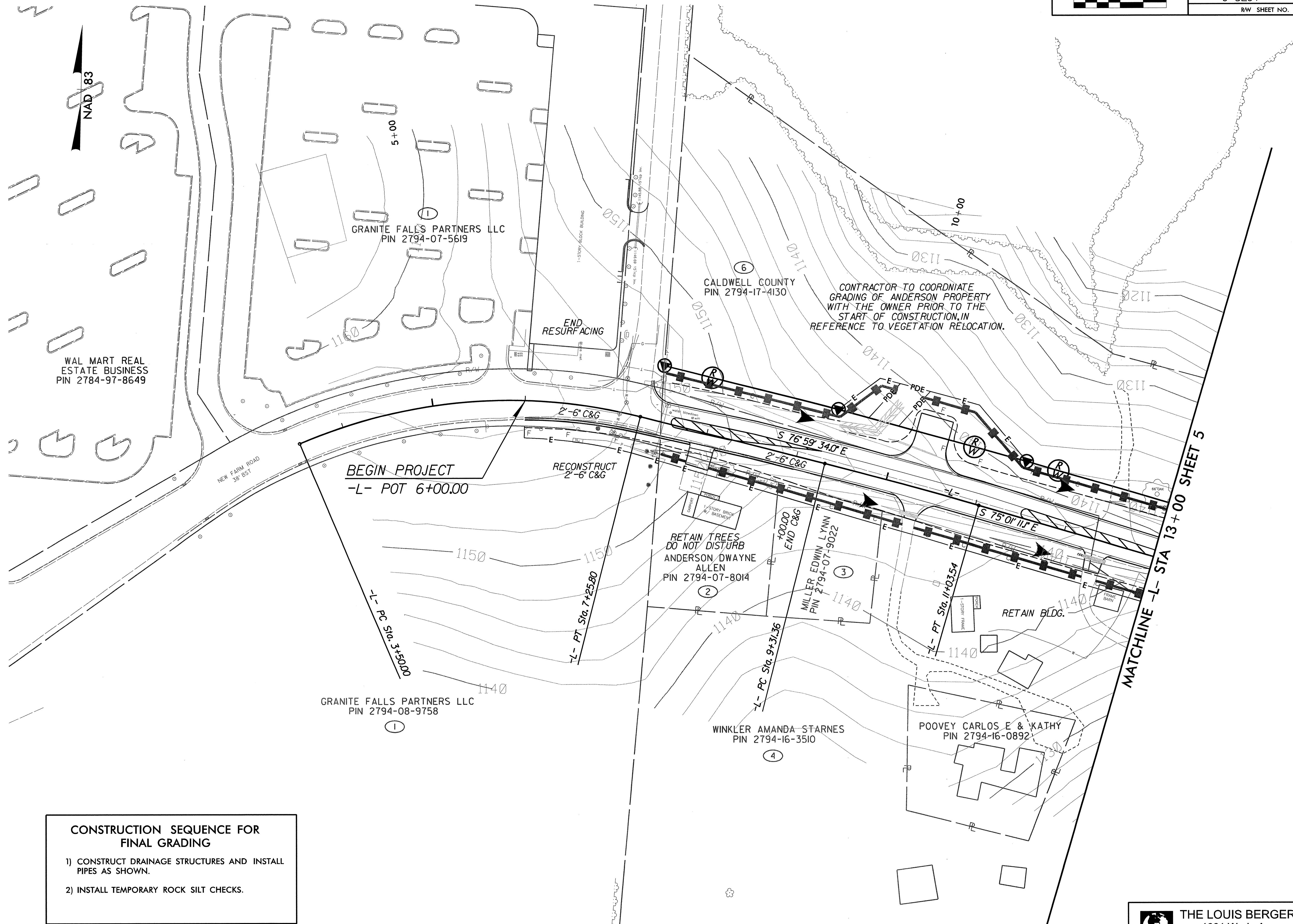
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PROJECT REFERENCE NO. U-5204	SHEET NO. EC-12/CONST.4
RW SHEET NO.	

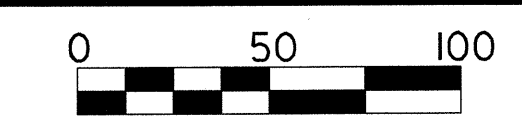


REVISIONS

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\$FILEL\$  
\$TIMES\$

- CONSTRUCTION SEQUENCE FOR FINAL GRADING**
- 1) CONSTRUCT DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
  - 2) INSTALL TEMPORARY ROCK SILT CHECKS.

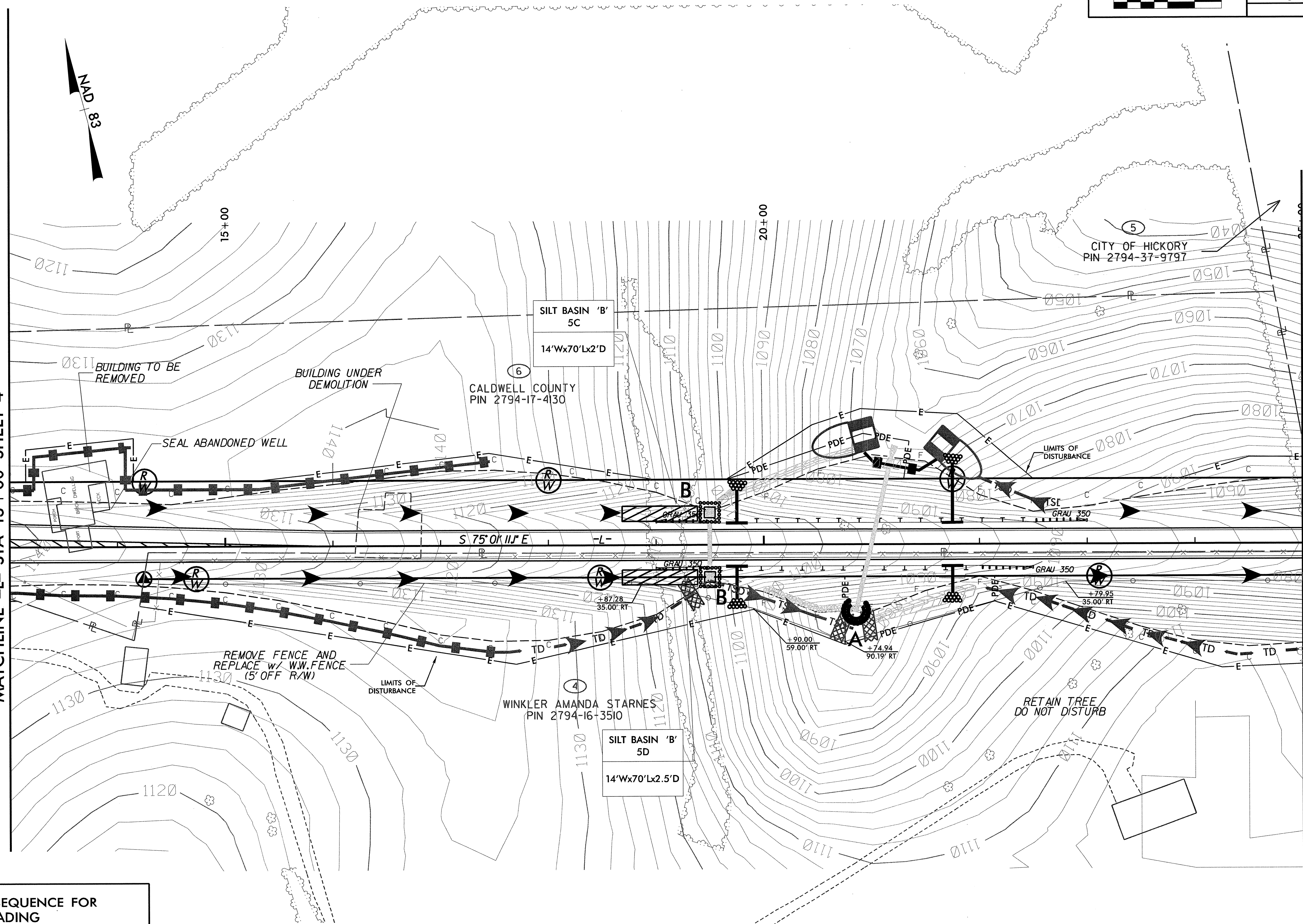




PROJECT REFERENCE NO.	SHEET NO.
U-5204	EC-13/CONST.5
RW SHEET NO.	

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MATCHLINE -L- STA 25+00 SHEET 6

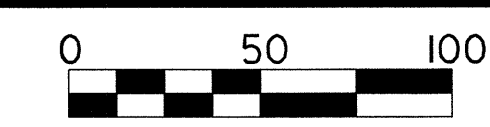


REVISIONS

\$DATE\$  
\$FILEL\$  
\$TIME\$

- CONSTRUCTION SEQUENCE FOR FINAL GRADING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS:  
5C & 5D
  - 2) CONSTRUCT THE REMAINING DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
  - 3) INSTALL ROCK INLET SEDIMENT TRAPS, ROCK PIPE INLET SEDIMENT TRAPS, TEMPORARY ROCK SILT CHECKS, TEMPORARY SLOPE DRAINS AND RIP-RAP OUTLET PROTECTION.





NAD 83

MATCHLINE -L- STA 25+00 SHEET 5

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

SILT BASIN 'B'  
6D  
10'Wx60'Lx2.5'D

SILT BASIN 'B'  
6F  
13'Wx65'Lx2'D

SILT BASIN 'B'  
6E  
13'Wx65'Lx2.5'D

SILT BASIN 'B'  
6G  
15'Wx75'Lx2.5'D

SILT BASIN 'B'  
6H  
20'Wx120'Lx3'D

WINKLER AMANDA STARNES  
PIN 2794-16-3510

CITY OF HICKORY  
PIN 2794-37-9797

MDI MANAGEMENT INC  
PIN 2794-36-7840

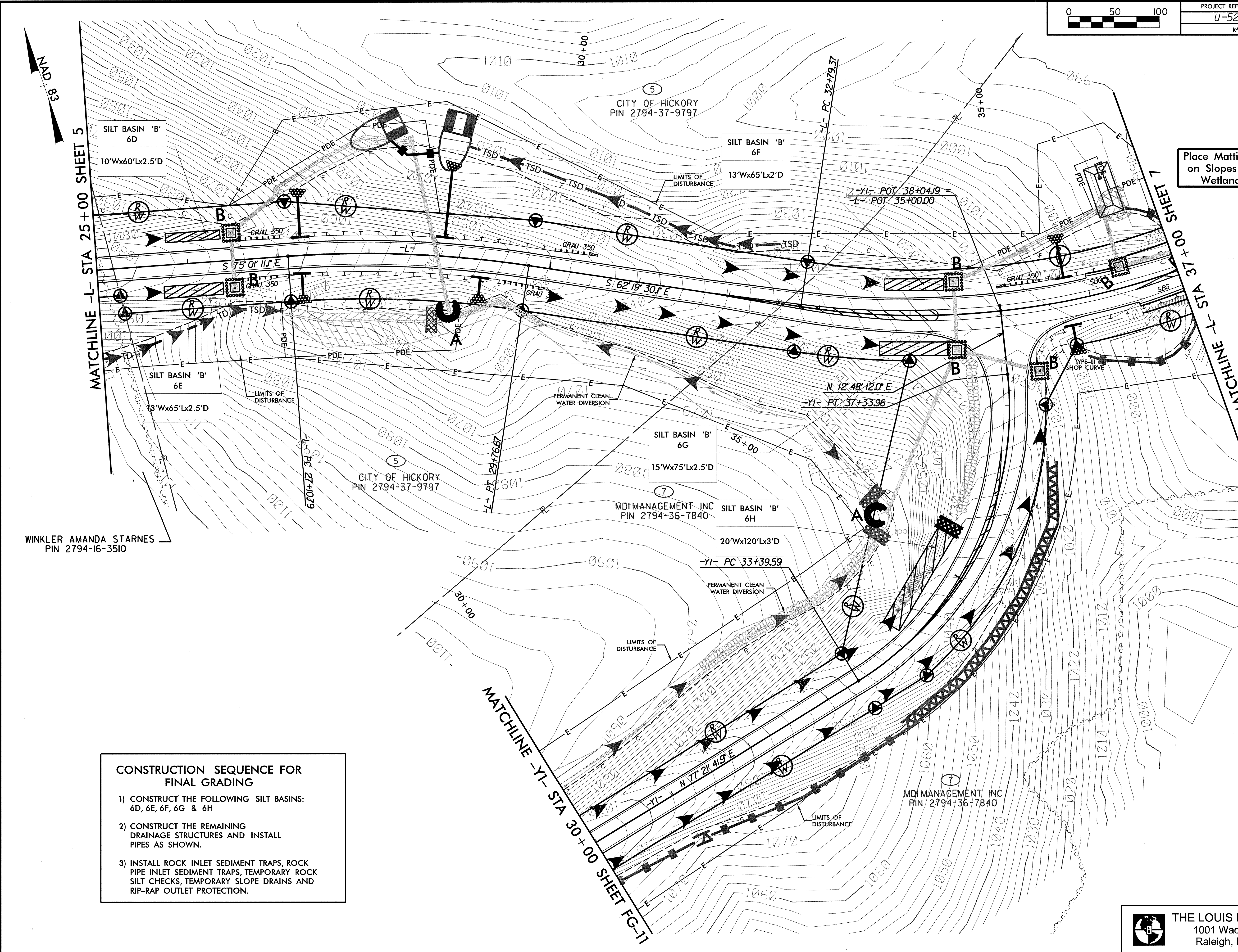
MDI MANAGEMENT INC  
PIN 2794-36-7840

- CONSTRUCTION SEQUENCE FOR FINAL GRADING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 6D, 6E, 6F, 6G & 6H
  - 2) CONSTRUCT THE REMAINING DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
  - 3) INSTALL ROCK INLET SEDIMENT TRAPS, ROCK PIPE INLET SEDIMENT TRAPS, TEMPORARY ROCK SILT CHECKS, TEMPORARY SLOPE DRAINS AND RIP-RAP OUTLET PROTECTION.

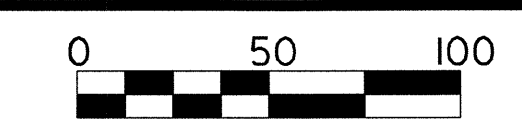
MATCHLINE -YI- STA 30+00 SHEET FG-11

REVISIONS

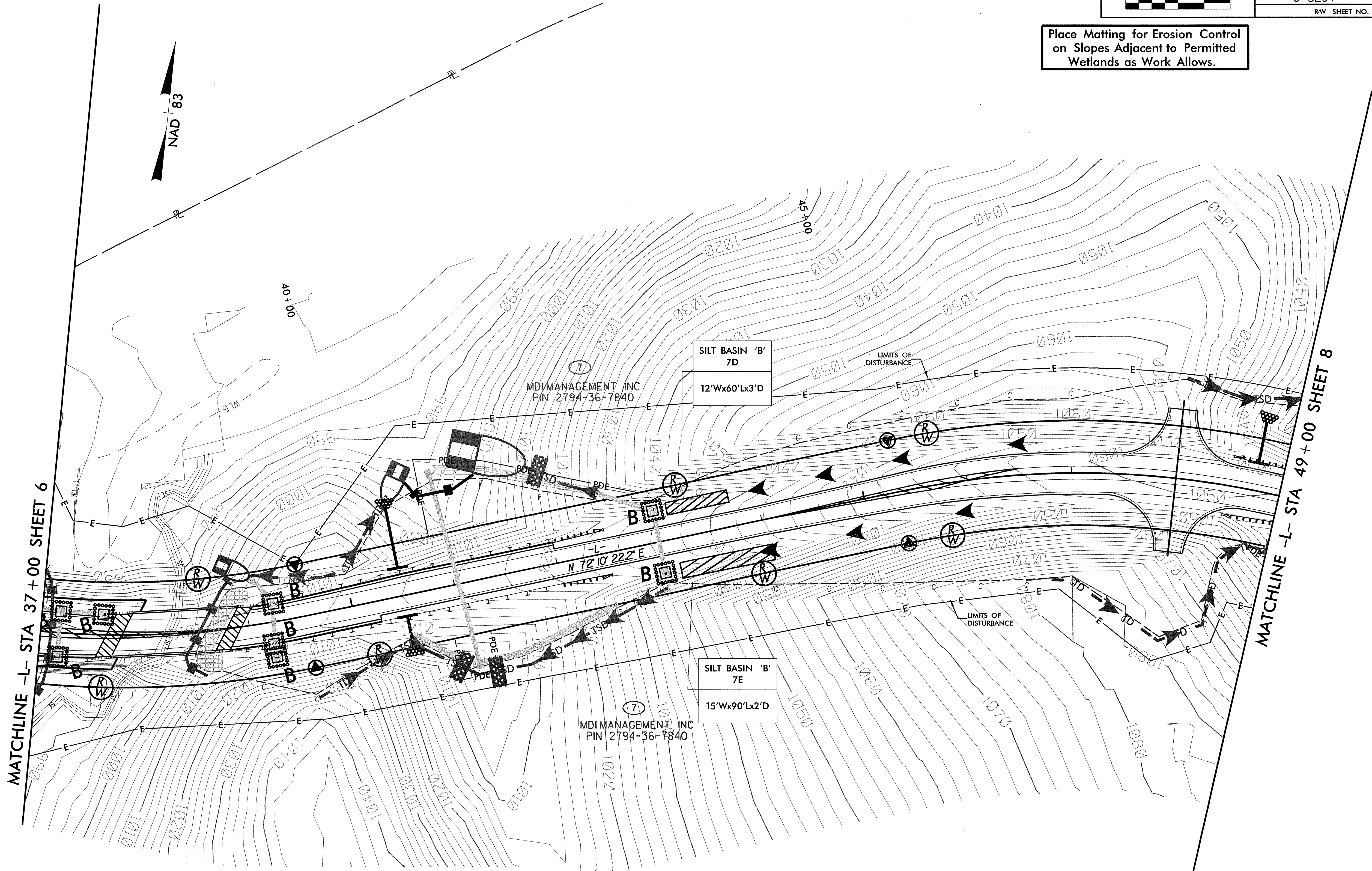
REVISIONS







Place Matting for Erosion Control  
on Slopes Adjacent to Permitted  
Wetlands as Work Allows.



REVISIONS

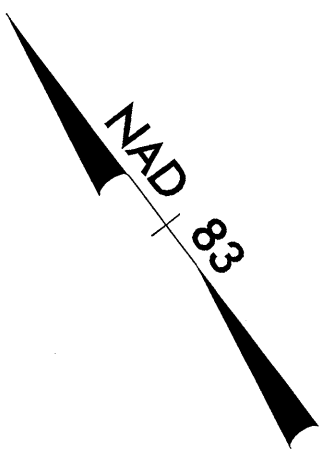
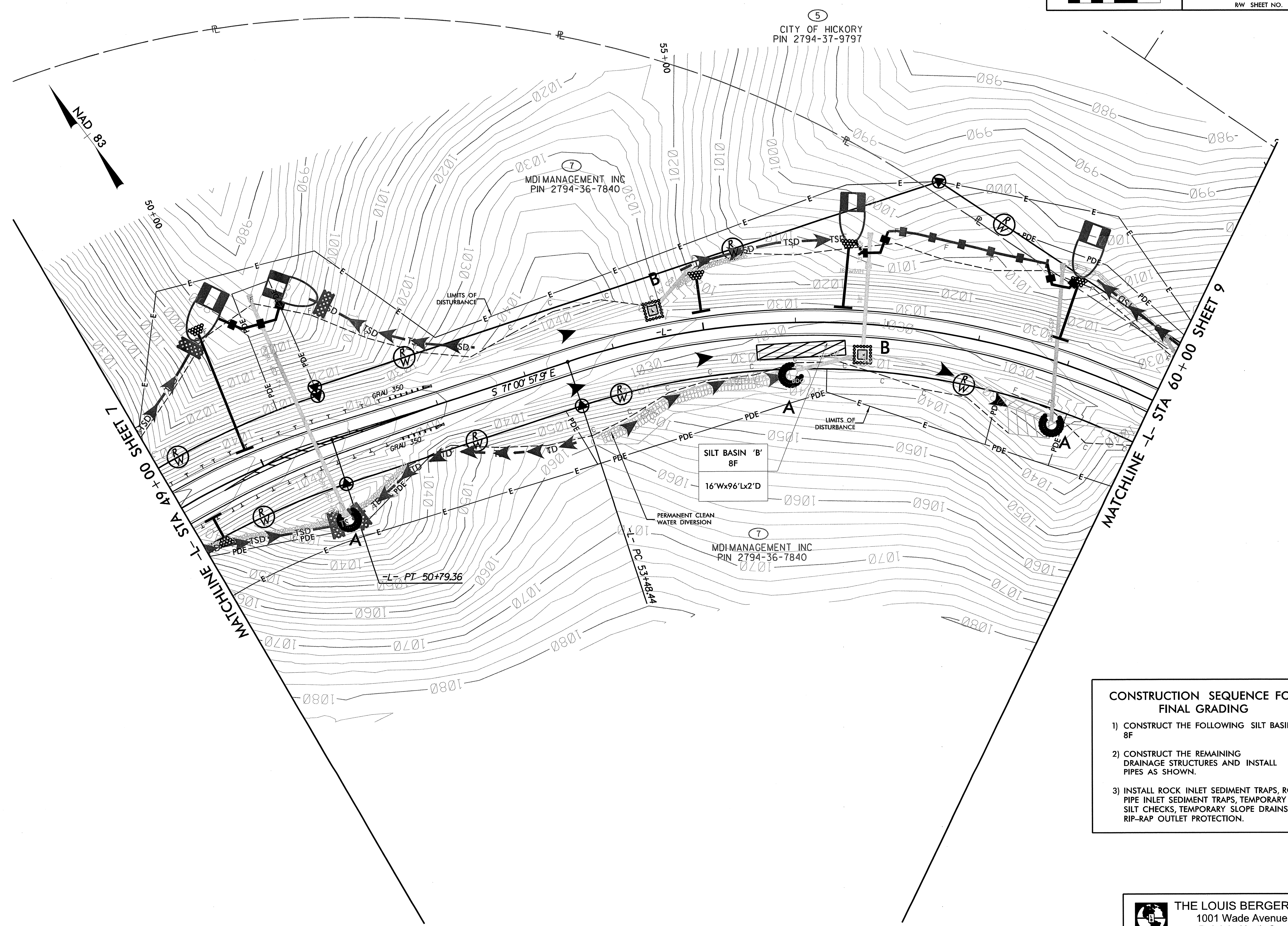
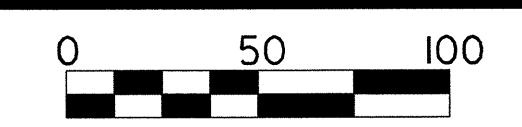
SDATES  
\$FILEL\$  
\$TIMES

**CONSTRUCTION SEQUENCE FOR  
FINAL GRADING**

- 1) CONSTRUCT THE FOLLOWING SILT BASINS:  
7D & 7E
- 2) CONSTRUCT THE REMAINING  
DRAINAGE STRUCTURES AND INSTALL  
PIPES AS SHOWN.
- 3) INSTALL ROCK INLET SEDIMENT TRAPS, ROCK  
PIPE INLET SEDIMENT TRAPS, TEMPORARY ROCK  
SILT CHECKS, TEMPORARY SLOPE DRAINS AND  
RIP-RAP OUTLET PROTECTION.







MATCHLINE -L- STA 49+00 SHEET 7

MATCHLINE -L- STA 60+00 SHEET 9

SILT BASIN 'B'  
8F  
16'Wx96'Lx2'D

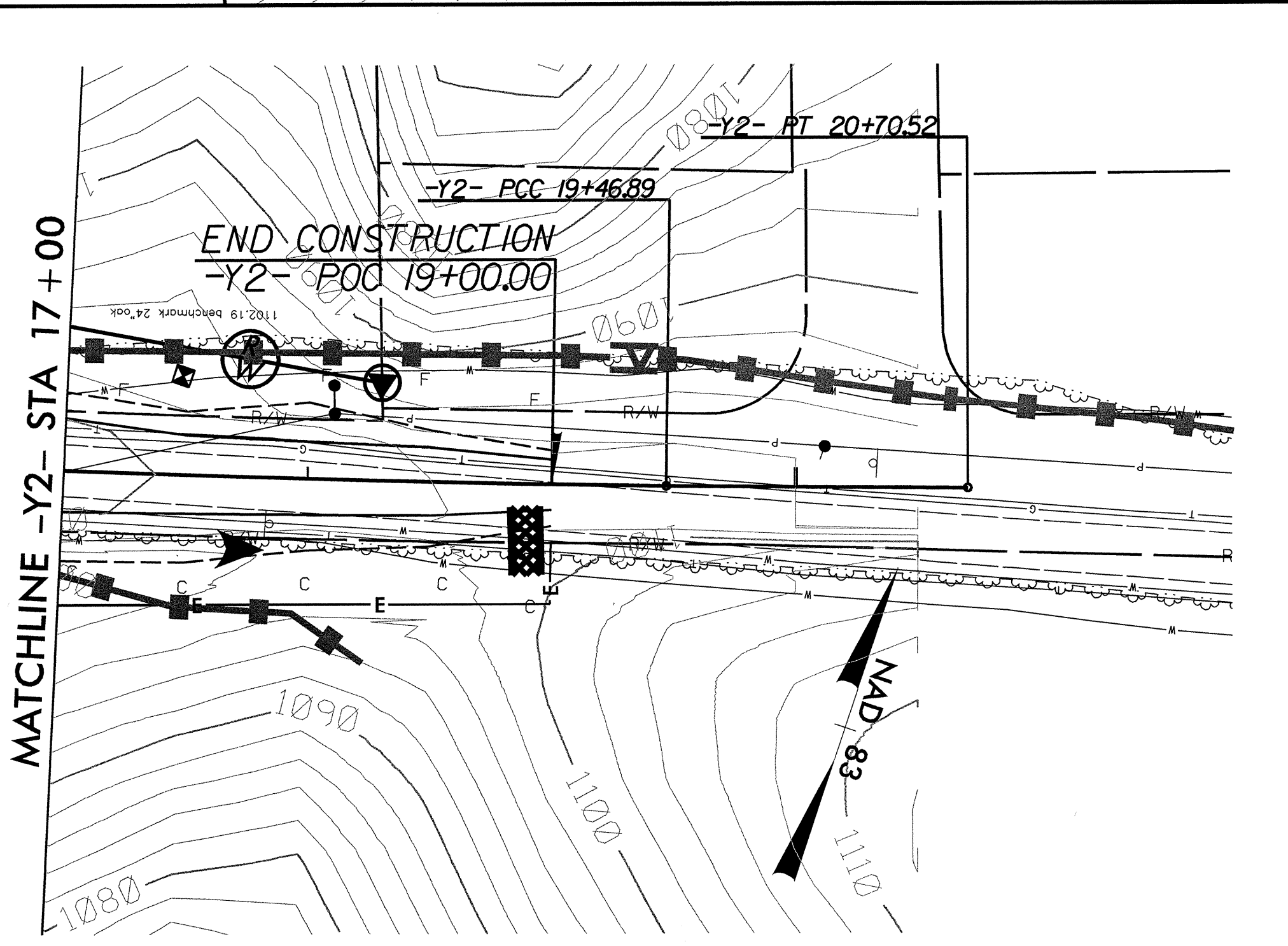
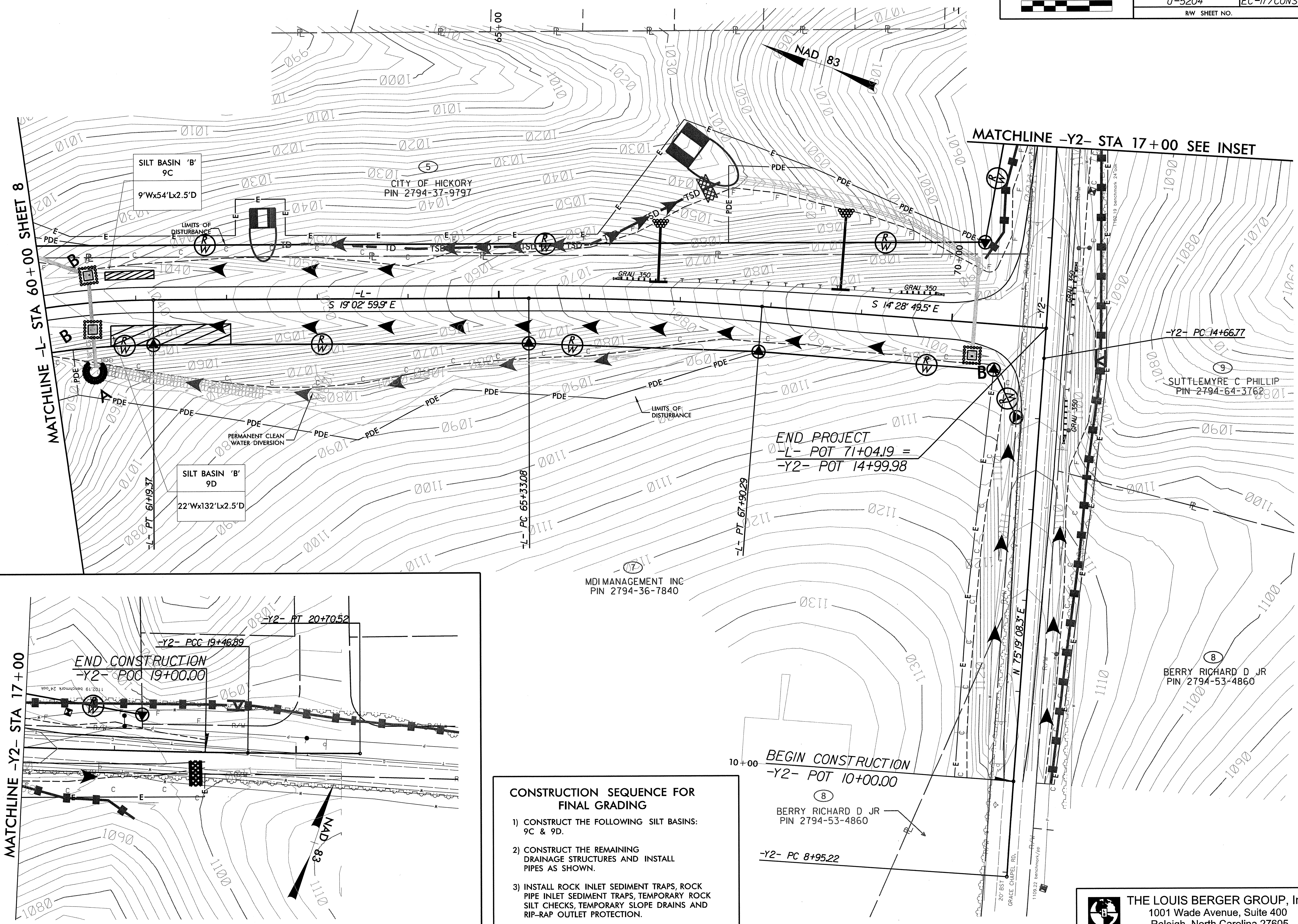
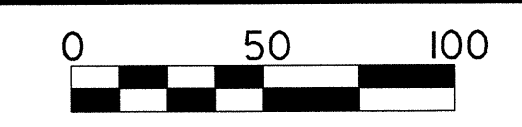
PERMANENT CLEAN  
WATER DIVERSION

MDI-MANAGEMENT INC  
PIN 2794-36-7840

- CONSTRUCTION SEQUENCE FOR FINAL GRADING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS:  
8F
  - 2) CONSTRUCT THE REMAINING DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
  - 3) INSTALL ROCK INLET SEDIMENT TRAPS, ROCK PIPE INLET SEDIMENT TRAPS, TEMPORARY ROCK SILT CHECKS, TEMPORARY SLOPE DRAINS AND RIP-RAP OUTLET PROTECTION.

REVISIONS  
 \$DATE\$  
 \$FILEL\$  
 \$TIME\$





- CONSTRUCTION SEQUENCE FOR FINAL GRADING**
- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 9C & 9D.
  - 2) CONSTRUCT THE REMAINING DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
  - 3) INSTALL ROCK INLET SEDIMENT TRAPS, ROCK PIPE INLET SEDIMENT TRAPS, TEMPORARY ROCK SILT CHECKS, TEMPORARY SLOPE DRAINS AND RIP-RAP OUTLET PROTECTION.

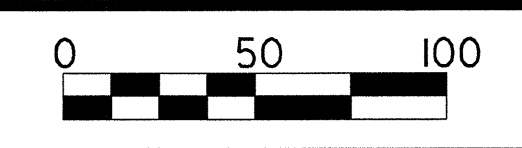
**BEGIN CONSTRUCTION**  
-Y2- POT 10+00.00

(8)  
BERRY RICHARD D JR  
PIN 2794-53-4860

-Y2- PC 8+95.22

REVISIONS  
 8 DATES  
 9 FILELS  
 8 TIMES



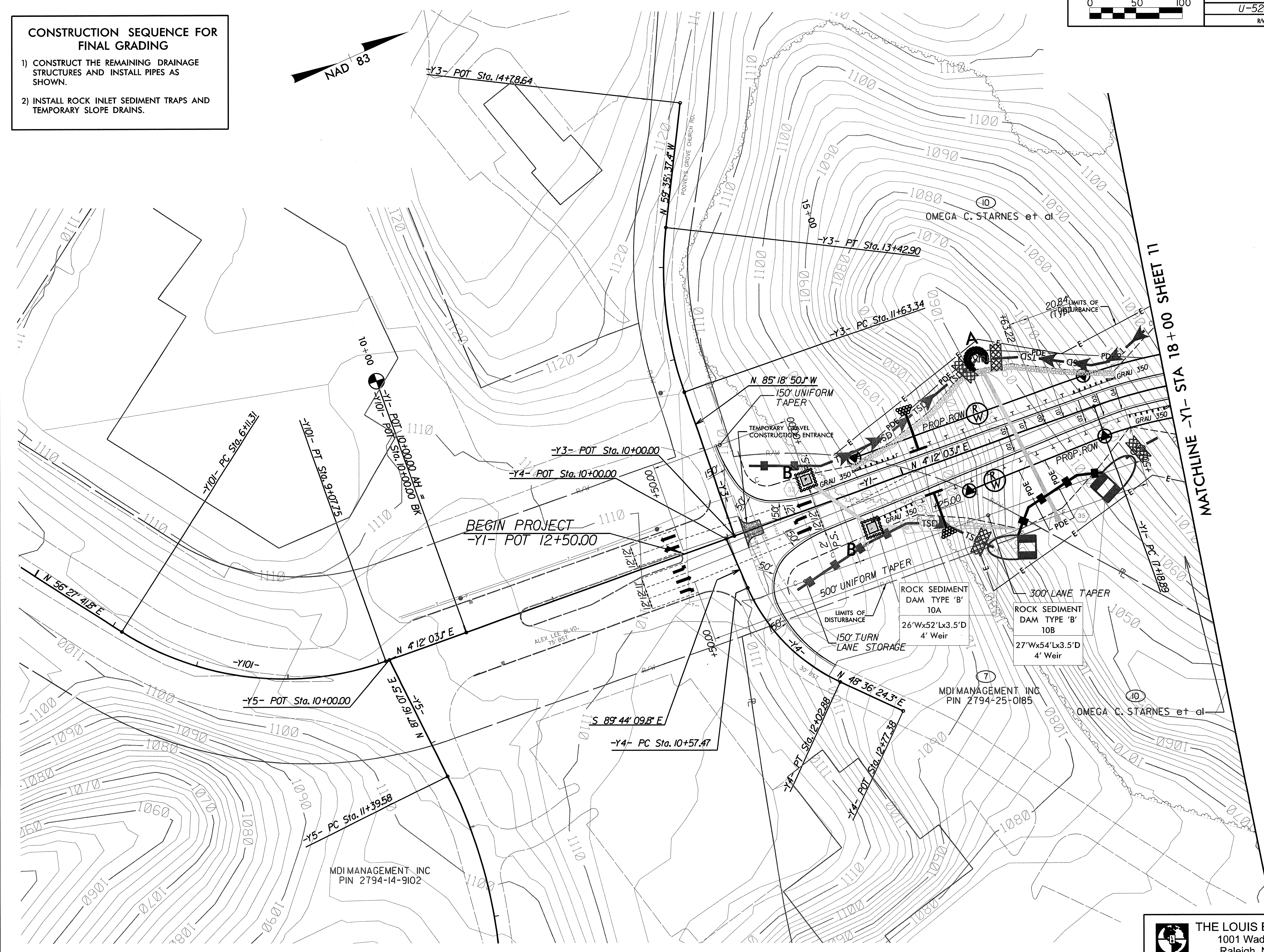


**CONSTRUCTION SEQUENCE FOR FINAL GRADING**

- 1) CONSTRUCT THE REMAINING DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
- 2) INSTALL ROCK INLET SEDIMENT TRAPS AND TEMPORARY SLOPE DRAINS.

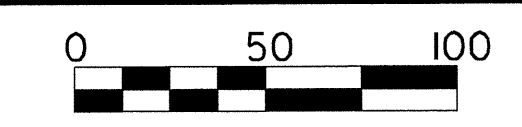
REVISIONS

\$DATES  
 \$FILEL\$  
 \$TIMES



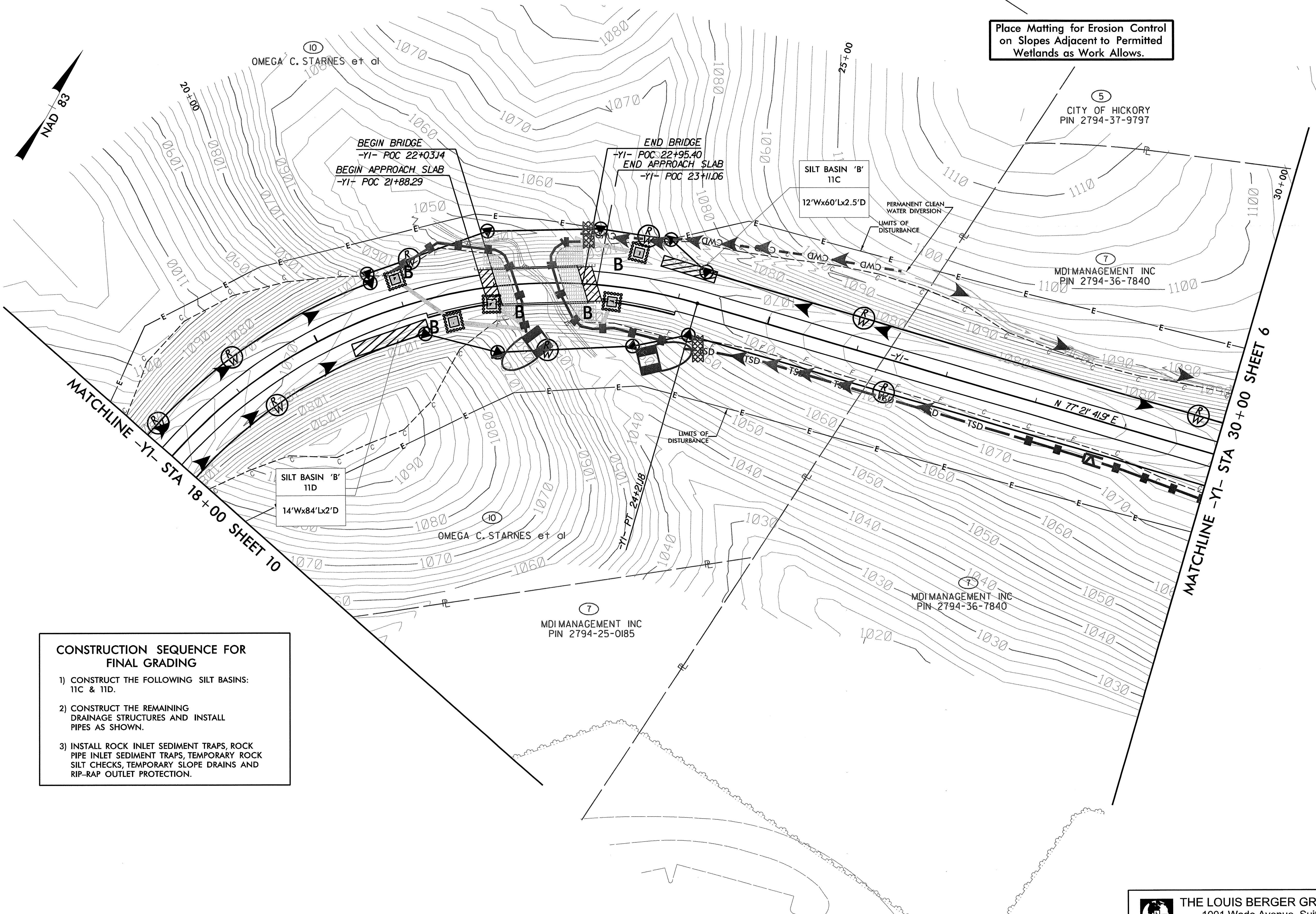
MATCHLINE -Y1- STA 18+00 SHEET 11





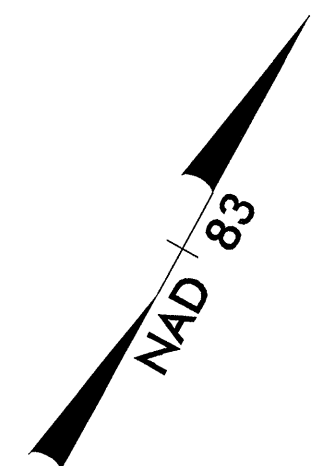
PROJECT REFERENCE NO.	SHEET NO.
U-5204	EC-19/CONST II
RW SHEET NO.	

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.



**CONSTRUCTION SEQUENCE FOR FINAL GRADING**

- 1) CONSTRUCT THE FOLLOWING SILT BASINS: 11C & 11D.
- 2) CONSTRUCT THE REMAINING DRAINAGE STRUCTURES AND INSTALL PIPES AS SHOWN.
- 3) INSTALL ROCK INLET SEDIMENT TRAPS, ROCK PIPE INLET SEDIMENT TRAPS, TEMPORARY ROCK SILT CHECKS, TEMPORARY SLOPE DRAINS AND RIP-RAP OUTLET PROTECTION.



REVISIONS

\$DATE\$  
\$FILEL\$  
\$TIME\$